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FIELD MAINTENANCE PRINT SET

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FIELD MAINTENANCE PRINT SET (1134A)
UNIT ASSEMBLY (1134A)
PARTS LIST (1134A)
DRAWING DIRECTORY (1134A)
PRINT SET KD11-EA (COMPLETE SET)
UNIBUS TERMINATOR/BOOT STRAP
UNIBUS TERMINATOR
PRINT SET KY11-LA (COMPLETE SET)
PRINT SET KY11-LB (COMPLETE SET)
PRINT SET DL11-W (COMPLETE SET)
PARITY MODULE
GRANT CONTINUITY
PRINT SET MS11-E (COMPLETE SET)
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PRINT SET BAll-L (COMPLETE SET)
UNIT ASSY BAll-K
UNIT ASSY BAll-K (PL)
DRAWING DIRECTORY BAll-K
PRINT SET 1134A P.S. (COMPLETE SET)
EXTERNAL BOOT CABLE
CONSOLE CABLE
CONSOLE POWER HARNESS
SHIPPING LIST (1134A)
UNIBUS TERM. BOOT STRAP

115V

23ØV

UNIT VARIATIONS COVERED BY THIS PRINT SET

5.25 Box

1134A-DC
1134A-HC
1134A-LC
1134A-MC
1134A-JC

1134A-DD
1134A-HD
1134A-LD
1134A-MD
1134A-JD

10.5 Box

1134A-DH
1134A-HH
1134A-LH
1134A-MH
1134A-DE
1134A-HE
1134A-LE
1134A-ME
1134A-JH
1134A-JE

1134A-DJ
1134A-HJ
1134A-LJ
1134A-MJ
1134A-DF
1134A-HF
1134A-LF
1134A-MF
1134A-JJ
1134A-JF

1134A
Field Maintenance
Print Set

Digital Equipment
Corporation

PRINT SET ORDER NO.
MPØØ19Ø

REVISIONS

REV.

CHG. NO.

DATE

12-77

2-78

1134A-7 A

1134A-8 B

USED ON OPTION/MODEL

DRN.

DATE

CHK'D

DATE

PROJ. ENG.

DATE

FIELD SERV.

DATE

SHEET I OF 1

1134A-7 A

1134A-8 B

1134A-7 A

1134A-8 B

1134A-7 A

1134A-8 B

1134A-7 A

1134A-8 B

1134A-7 A

1134A-8 B

digital

TITLE:
1134A FIELD MAINTENANCE PRINT SET

SIZE
B

CODE
TC

NUMBER
1134A-Ø-1

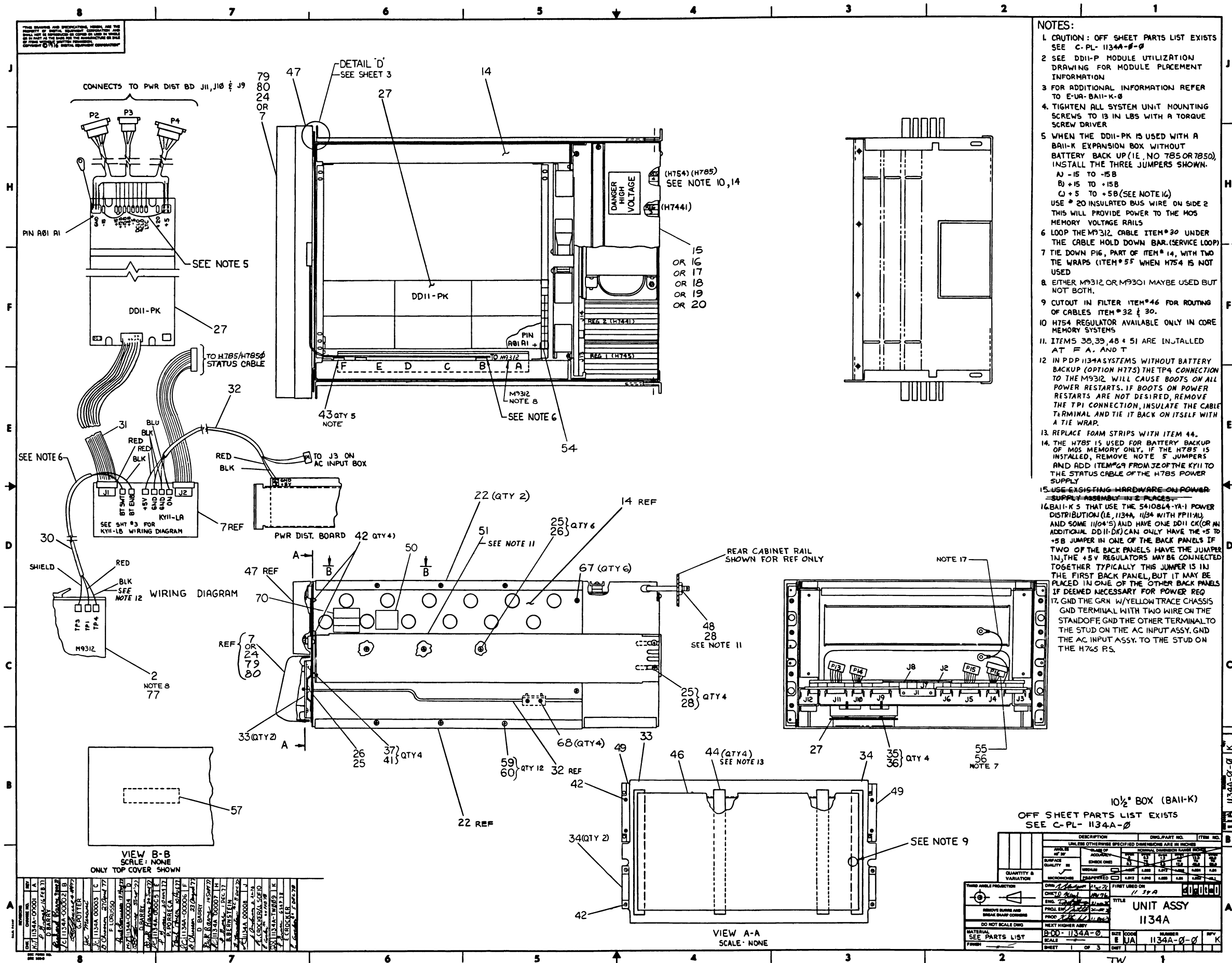
REV.
B

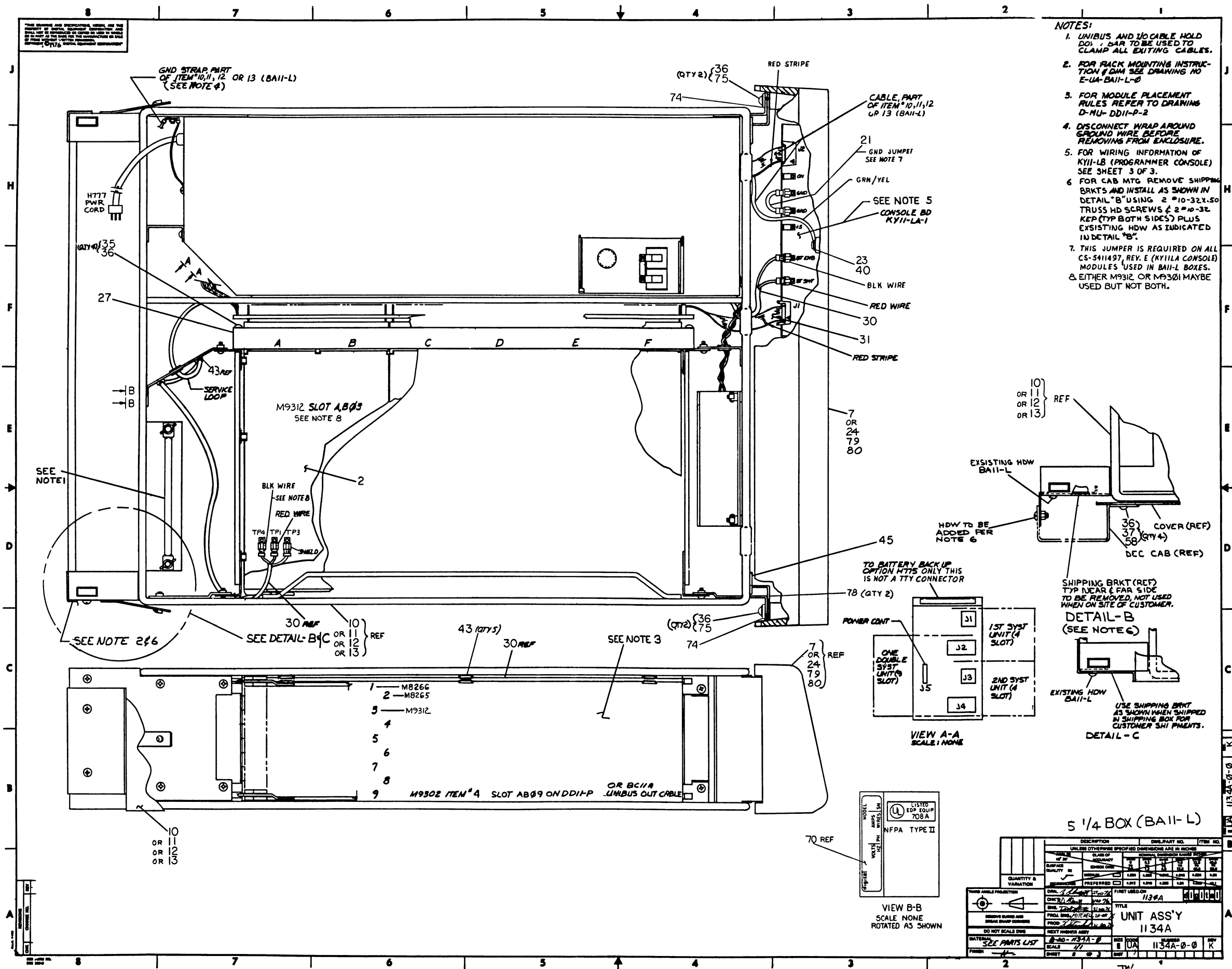
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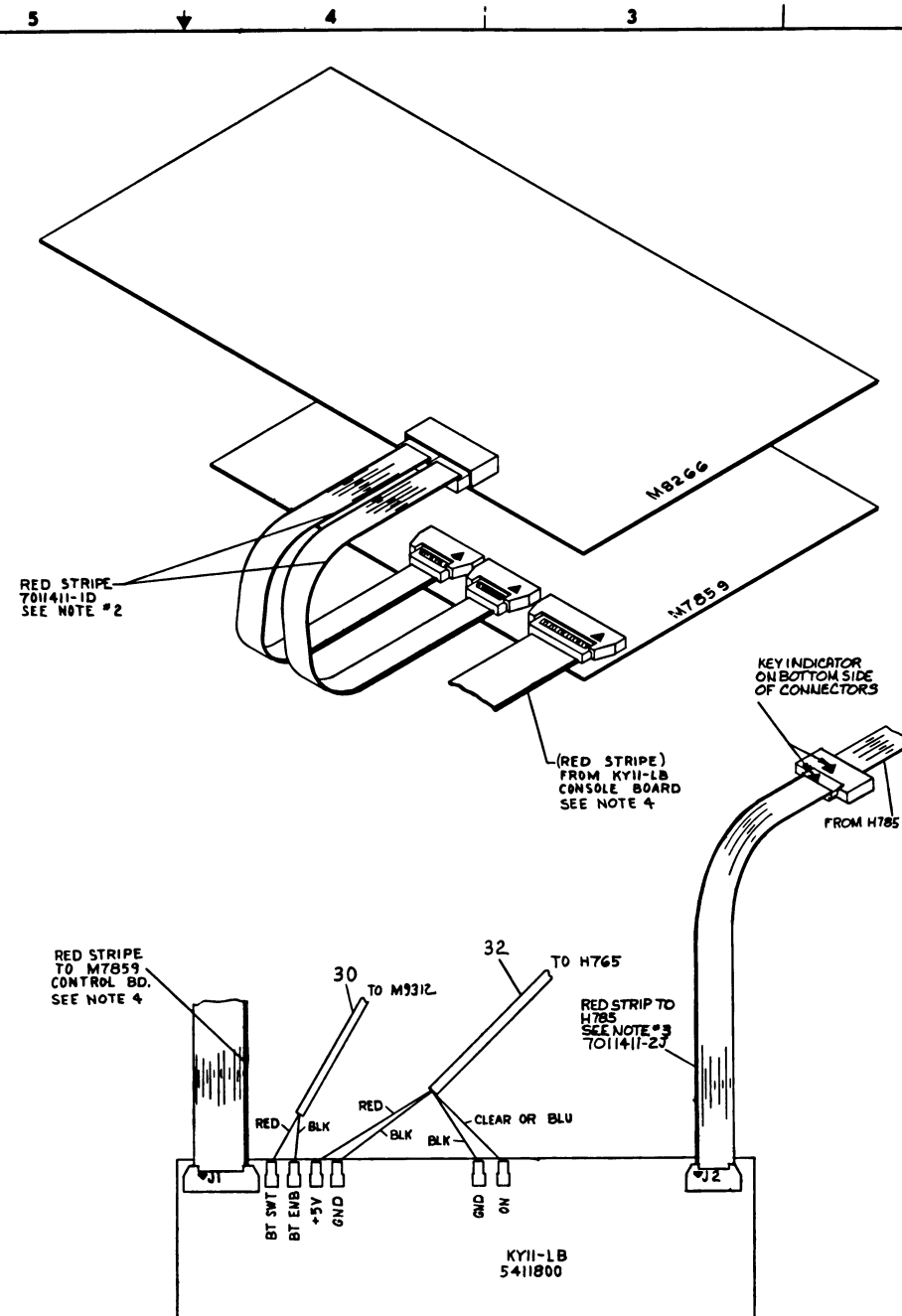
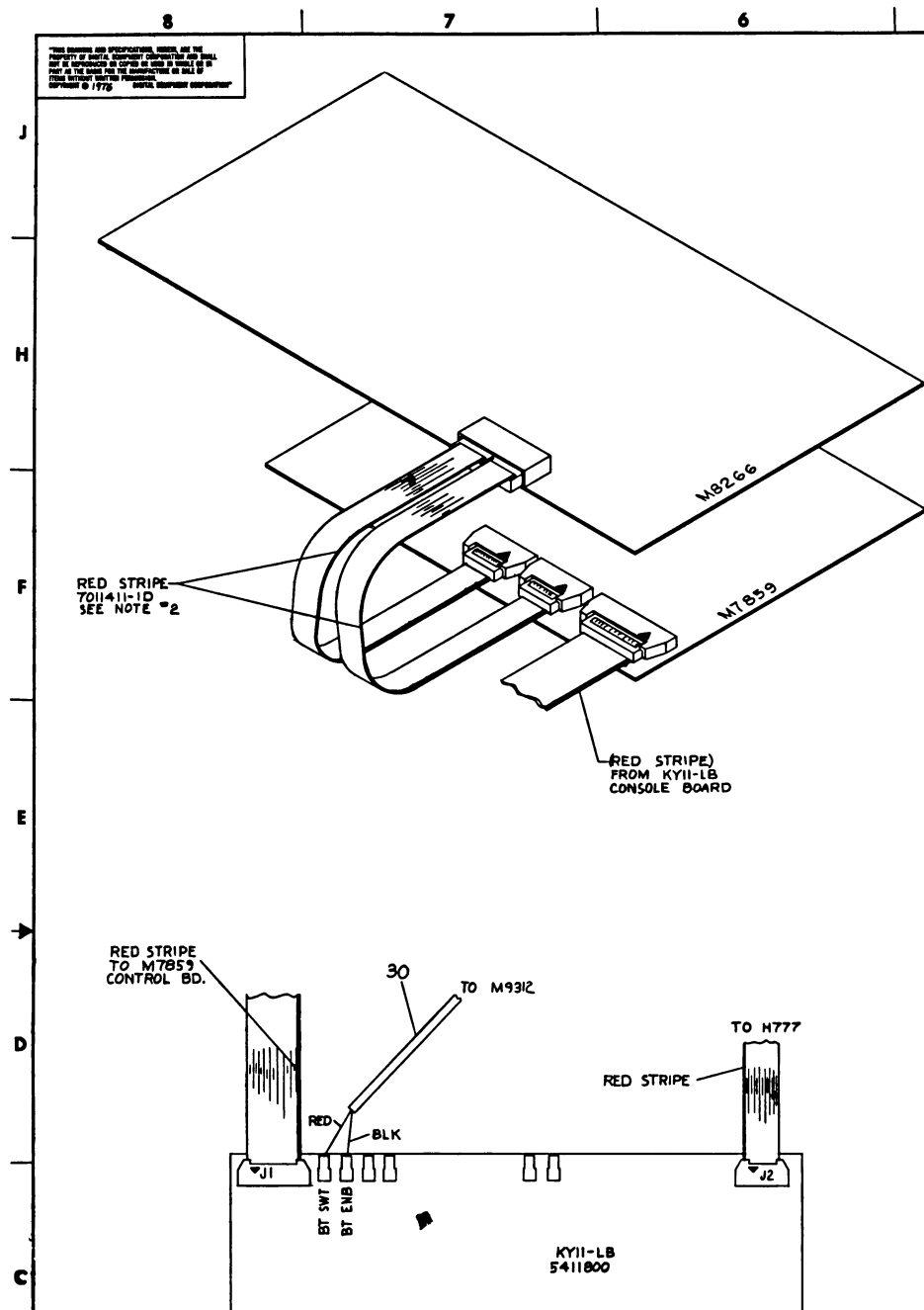
DRB 124

FN 01124 16 N676 (777)

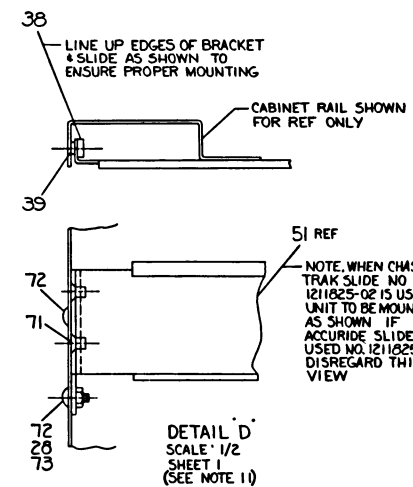
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- NOTES:**
1. THE M7859 PROGRAMERS CONSOLE INTERFACE MODULE MUST BE INSTALLED INTO AN SPC SLOT.
 2. PART OF THE KY11-LB OPTION
 3. PRESENT ONLY IN SYSTEMS WITH M785 BATTERY BACK UP REGULATOR
 4. KY11-LB CABLE IS TO BE RUN BEHIND THE CONSOLE BUT IN FRONT OF THE FILTER TO THE RIGHT SIDE OF THE MACHINE THEN THRU THE HOLE IN THE FILTER AND UP OVER THE CPU MODULES TO THE M7859.



51 REF
NOTE. WHEN CHASSIS
TRAK SLIDE NO
1211825-02 IS USED
UNIT TO BE MOUNTED
AS SHOWN IF
ACCURIDE SLIDE IS
USED NO. 1211825-01
DISREGARD THIS
VIEW

DETAIL D
SCALE: 1/2"
SHEET 1
(SEE NOTE 1)

REVISIONS		
CHK	CHANGE NO.	REV

TITLE UNIT ASSY 1134A		SIZE CODE EUA	NUMBER 1134A-0-0		REV K
SCALE NONE	SHEET 2 OF 3	DIST			

REVISIONS			REV.		CHG. NO.		REV.	
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	
KIT	1134A-00001	A	KIT	1134A-00001	A	KIT	1134A-00001	
D. BARRY	1134A-00002	B	D. BARRY	1134A-00002	B	D. BARRY	1134A-00002	
G. POTTER	1134A-00003	C	G. POTTER	1134A-00003	C	G. POTTER	1134A-00003	
P. LORUSSO	1134A-00004	D	P. LORUSSO	1134A-00004	D	P. LORUSSO	1134A-00004	
D. BARRY	1134A-00005	E	D. BARRY	1134A-00005	E	D. BARRY	1134A-00005	
P. FORRECA	1134A-00006	F	P. FORRECA	1134A-00006	F	P. FORRECA	1134A-00006	
D. BARRY	1134A-00007	G	D. BARRY	1134A-00007	G	D. BARRY	1134A-00007	
B. BERNSTEIN	1134A-00008	H	B. BERNSTEIN	1134A-00008	H	B. BERNSTEIN	1134A-00008	
E. CROCKER	1134A-00009	I	E. CROCKER	1134A-00009	I	E. CROCKER	1134A-00009	
E. CROCKER	1134A-00010	J	E. CROCKER	1134A-00010	J	E. CROCKER	1134A-00010	
E. CROCKER	1134A-00011	K	E. CROCKER	1134A-00011	K	E. CROCKER	1134A-00011	
E. CROCKER	1134A-00012	L	E. CROCKER	1134A-00012	L	E. CROCKER	1134A-00012	
E. CROCKER	1134A-00013	M	E. CROCKER	1134A-00013	M	E. CROCKER	1134A-00013	
E. CROCKER	1134A-00014	N	E. CROCKER	1134A-00014	N	E. CROCKER	1134A-00014	
E. CROCKER	1134A-00015	O	E. CROCKER	1134A-00015	O	E. CROCKER	1134A-00015	
E. CROCKER	1134A-00016	P	E. CROCKER	1134A-00016	P	E. CROCKER	1134A-00016	
E. CROCKER	1134A-00017	Q	E. CROCKER	1134A-00017	Q	E. CROCKER	1134A-00017	
E. CROCKER	1134A-00018	R	E. CROCKER	1134A-00018	R	E. CROCKER	1134A-00018	
E. CROCKER	1134A-00019	S	E. CROCKER	1134A-00019	S	E. CROCKER	1134A-00019	
E. CROCKER	1134A-00020	T	E. CROCKER	1134A-00020	T	E. CROCKER	1134A-00020	
E. CROCKER	1134A-00021	U	E. CROCKER	1134A-00021	U	E. CROCKER	1134A-00021	
E. CROCKER	1134A-00022	V	E. CROCKER	1134A-00022	V	E. CROCKER	1134A-00022	
E. CROCKER	1134A-00023	W	E. CROCKER	1134A-00023	W	E. CROCKER	1134A-00023	
E. CROCKER	1134A-00024	X	E. CROCKER	1134A-00024	X	E. CROCKER	1134A-00024	
E. CROCKER	1134A-00025	Y	E. CROCKER	1134A-00025	Y	E. CROCKER	1134A-00025	
E. CROCKER	1134A-00026	Z	E. CROCKER	1134A-00026	Z	E. CROCKER	1134A-00026	
E. CROCKER	1134A-00027	AA	E. CROCKER	1134A-00027	AA	E. CROCKER	1134A-00027	
E. CROCKER	1134A-00028	AB	E. CROCKER	1134A-00028	AB	E. CROCKER	1134A-00028	
E. CROCKER	1134A-00029	AC	E. CROCKER	1134A-00029	AC	E. CROCKER	1134A-00029	
E. CROCKER	1134A-00030	AD	E. CROCKER	1134A-00030	AD	E. CROCKER	1134A-00030	
E. CROCKER	1134A-00031	AE	E. CROCKER	1134A-00031	AE	E. CROCKER	1134A-00031	
E. CROCKER	1134A-00032	AF	E. CROCKER	1134A-00032	AF	E. CROCKER	1134A-00032	
E. CROCKER	1134A-00033	AG	E. CROCKER	1134A-00033	AG	E. CROCKER	1134A-00033	
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E. CROCKER	1134A-00037	AK	E. CROCKER	1134A-00037	AK	E. CROCKER	1134A-00037	
E. CROCKER	1134A-00038	AL	E. CROCKER	1134A-00038	AL	E. CROCKER	1134A-00038	
E. CROCKER	1134A-00039	AM	E. CROCKER	1134A-00039	AM	E. CROCKER	1134A-00039	
E. CROCKER	1134A-00040	AN	E. CROCKER	1134A-00040	AN	E. CROCKER	1134A-00040	
E. CROCKER	1134A-00041	AO	E. CROCKER	1134A-00041	AO	E. CROCKER	1134A-00041	
E. CROCKER	1134A-00042	AP	E. CROCKER	1134A-00042	AP	E. CROCKER	1134A-00042	
E. CROCKER	1134A-00043	AQ	E. CROCKER	1134A-00043	AQ	E. CROCKER	1134A-00043	
E. CROCKER	1134A-00044	AR	E. CROCKER	1134A-00044	AR	E. CROCKER	1134A-00044	
E. CROCKER	1134A-00045	AS	E. CROCKER</					

[illegible]

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

NOTE: 1. EITHER M9312 OR M9301 MAY BE USED BUT NOT BOTH.

UNIT VARIATIONS

PRINT SET

VAR

TITLE

1134A-DC

KD11-EA, MS11-JP, BA11-LM, M7850

M9312

, 115V

1134A-DD

KD11-EA, MS11-JP, BA11-LN, M7850

M9312

230V

1134A-HC

KD11-EA, MM11-DP, BA11-LK, M7850

M9312

, 115V

1134A-HD

KD11-EA, MM11-DP, BA11-LL, M7850

M9312

230V

1134A-LC

1134A-DC & MS11-JP, 115V

1134A-LD

1134A-DD & MS11-JP, 230V

1134A-MC

1134A-HC & MM11-DP, 115V

1134A-MD

1134A-HD & MM11-DP, 230V

1134A-LH

1134A-DH & MS11-JP, 115V

1134A-LJ

1134A-DJ & MS11-JP, 230V

1134A-DH

KD11-EA, MS11-JP, BA11-KA, M7850

M9312

115V

1134A-DJ

KD11-EA, MS11-JP, BA11-KA, M7850

M9312

, 230V

1134A-MH

1134A-HH & MM11-DP, 115V

1134A-MJ

1134A-HJ & MM11-DP, 230V

1134A-HH

KD11-EA, MM11-DP, BA11-KA, M7850

M9312

115V

1134A-HJ

KD11-EA, MM11-DP, BA11-KA, M7850

M9312

, 230V

1134A-LE

1134A-DE, & MS11-JP, 115V

1134A-LF

1134A-DF & MS11-JP, 230V

1134A-DE

KD11-EA, MS11-JP, BA11-KA, M7850

M9312

DL11-WA, 115V

1134A-DF

KD11-EA, MS11-JP, BA11-KA, M7850

M9312

DL11-WA, 230V

REVISIONS

DATE	CHG. NO	REV
4-77	1134A-3	A
7-77	1134A-5	B
8-77	1134A-6	C
11-77	1134A-7	D
2-78	1134A-8	E

USED ON OPTION/MODEL

DRN.

D. HEALY

DATE

NOV 76

CHK'D.

D. HEALY

DATE

NOV 76

PROJ ENG.

DATE

PROD.

DATE

FIELD SERV.

DATE

TITLE

UNIT ASSY 1134A

SIZE

CODE

NUMBER

REV

B

DD

1134A-0

E

DIST

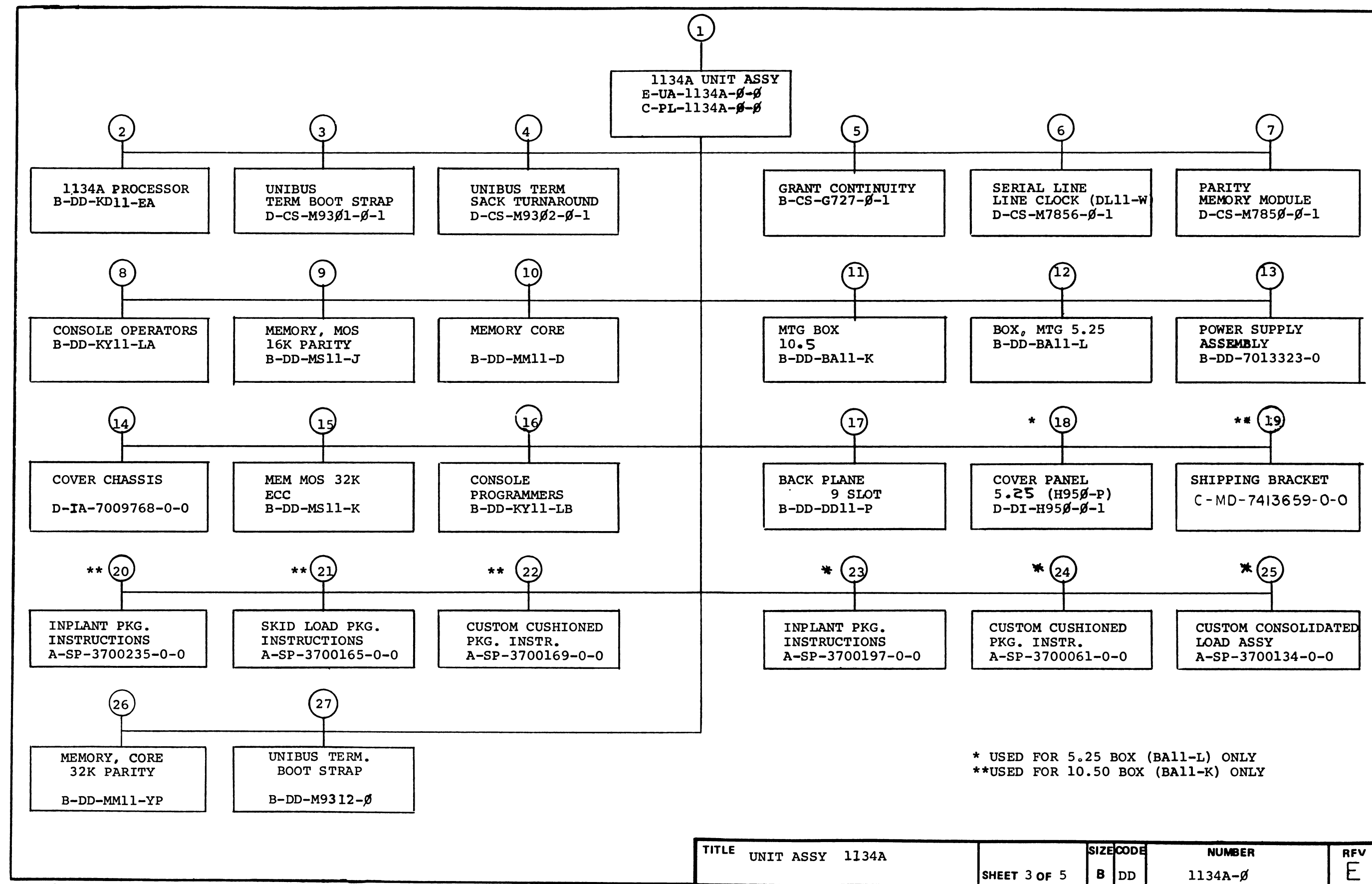
SHEET 1 OF 5

THIS IS PRINT SET

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SEQUENCE

EN 01062-1A-16 R972-(325



EN-01062-2C-16-R376-13291

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE			
1	B-TC-1134A-Ø-1	1134A (Field Maintenance Print Set)	-							
	MPØØ19Ø	1134A (Print Set Order Number)	-	8	B-DD-KY11-LA	Console, Operators	E/M			
	D-UA-1134A-Ø-Ø	1134A Unit Assy	E/M							
	C-PL-1134A-Ø-Ø	1134A Unit Assy (PL)	E/M							
	A-DC-7409478-Ø-Ø	Decal Patent	M							
	B-DC-7414727-0-0	Decal, Sticker	M							
	C-IA-7013752-0-0	Cable, Jumper (BA11-L)	E/M	9	B-DD-MS11-J	Memory Mos 16K Parity (M7847)	E/M			
	C-IA-7011413-0-0	Cable, External Boot M93Ø1	E/M							
	B-DC-7417820-0-0	Decal, Module Layout	M							
	B-MU-DD11-P-2	Module Utilization (DD11-P)	E/M	10	B-DD-MM11-D	Memory Core 16K Parity	E/M			
	C-IA-7011411-0-0	Cable, Console (DD11-PK for L or K Box)	E/M							
	D-IA-7011992-0-0	Console, Power Harness (K Box)	E/M							
	A-PL-1134A-Ø-4	1134A Shipping List	E/M							
	B-MD-7417628-0-0	Bracket, Bezel	M	11	B-DD-BA11-K	Mtg. Box 10.50	E/M			
	B-MD-7417627-0-0	Adapter Bracket, Bezel	M							
	B-MD-7417882-0-0	Nut Plate	M							
	B-MD-7417883-0-0	Plate, Slide Mounting	M							
	A-PS-3613210-0-0	Decal Electrical Data	M							
				12	B-DD-BA11-L	Mtg. Box 5.25	E/M			
2	B-DD-KD11-EA	1134A Processor	E/M							
	B-PL-M8265-0-8	ROM LISTING		13	B-DD-7013323-0	Power Supply Assembly	E/M			
	B-PL-M8266-0-8	ROM LISTING								
3	D-CS-M93Ø1-Y-1	Unibus Term Boot Strap	E/M							
				14	D-IA-7009768-0-0	Cover, Chassis	M			
4	D-CS-M93Ø2-Ø-1	Unibus Term Sack Turn Around	E/M							
				15	B-DD-MS11-K-Ø	Memory Mos 32K ECC (M7984)	E/M			
5	B-CS-G727-Ø-1	Grant Continuity	E/M							
				16	B-DD-KY11-LB	Console, Programmers	E/M			
6	D-CS-M7856-Ø-1	Serial Line/ Line Clock (DL11-W)	E/M							
7	D-CS-M785Ø-Ø-1	Parity Memory Module	E/M							
TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL				TITLE UNIT ASSY 1134A		SHEET4 of5	SIZE B	CODE DD	NUMBER 1134A-Ø	REV E

digital

EN-01062-2C-16-R376-1251

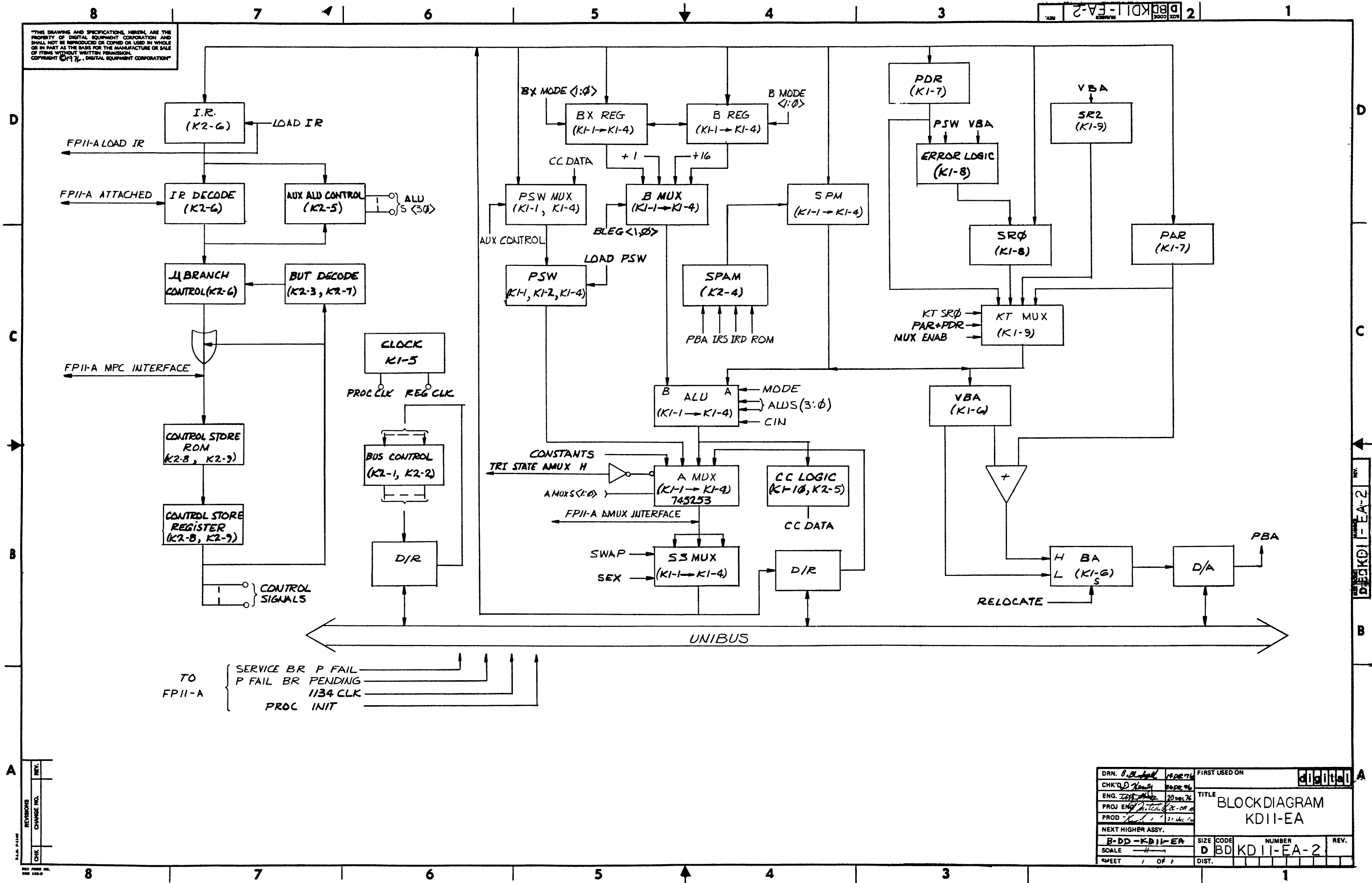
FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE			
17	B-DD-DD11-P	Backplane 9 Slot for L & K Boxes	M/E							
18	D-DI-H95Ø-P-Ø D-UA-H95Ø-P-Ø	Dwg. Index List H95Ø Cover 5-1/4 Bezel	M M	24	A-SP-37ØØØ61-Ø-Ø	Custom Cushioned Pkg. Instr.	M			
				25	A-SP-37ØØØ134-Ø-Ø	Cushion Consolidated Load Assy.	M			
				26	B-DD-MM11-YP	Memory, Core 32K Parity				
19	C-MD-7413659-O-O	Shipping Bracket (BA11-K)	M	27	B-DD-M9312-0	Unibus Term. Boot Strap	E/M			
20	A-SP-37ØØØ235-Ø-Ø A-PS-99Ø565Ø-Ø-Ø A-PS-99Ø5889-Ø-Ø A-PS-99Ø5644-Ø-Ø A-PS-99Ø5323-Ø-Ø A-PS-99Ø5129-Ø-Ø	Implant Pkg. Instructions Regular Slotted Carton Bezel Protector Rear Pad Laminated Saddle Poly Bag	M M M M M M							
21	A-SP-37ØØØ165-Ø-Ø A-BS-121Ø568-Ø1-Ø A-PS-99Ø5445-Ø-Ø A-PS-99Ø5419-Ø-Ø	Skid Load Pkg. Instructions Cushioned Skid Half Overlap Slotted Carton (Top) Flanged Tube (Bottom)	M M M M							
22	A-SP-37ØØØ169-Ø-Ø A-PS-99Ø5645-Ø-Ø A-PS-99Ø5642-Ø-Ø A-PS-99Ø5643-Ø-Ø	Cust. Cushioned Pkg. Instructions Full Telescope Foam, Pad Foam/Corrugated Side Wall Assy	M M M M							
23	A-SP-37ØØØ197-Ø-Ø A-PS-99Ø5418-Ø-Ø A-PS-99Ø5754-Ø-Ø A-PS-99Ø5755-Ø-Ø A-PS-99Ø5129-Ø-Ø A-PS-99Ø5729-Ø-Ø	Implant Pkg. Instructions Regular Slotted Carton Bezel Protector Laminated Saddle Poly Bag Tape	M M M M M M							
TYPE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL				TITLE UNIT ASSY 1134A		SHEET 5 OF 5	SIZE B	CODE DD	NUMBER 1134A-Ø	REV E

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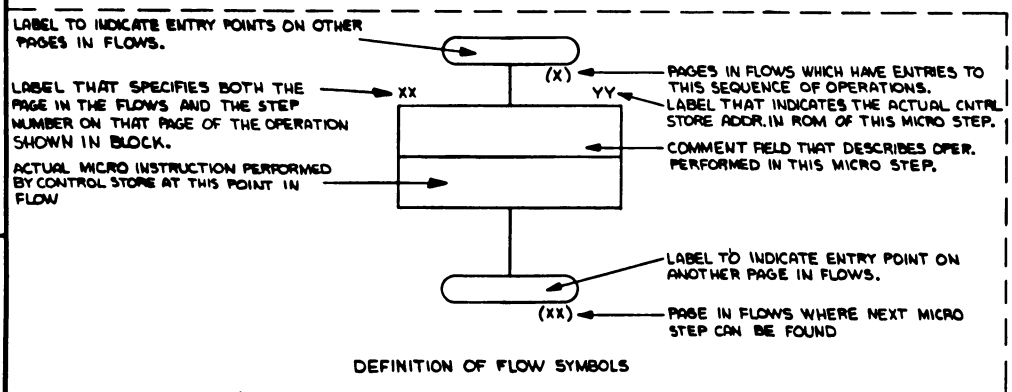
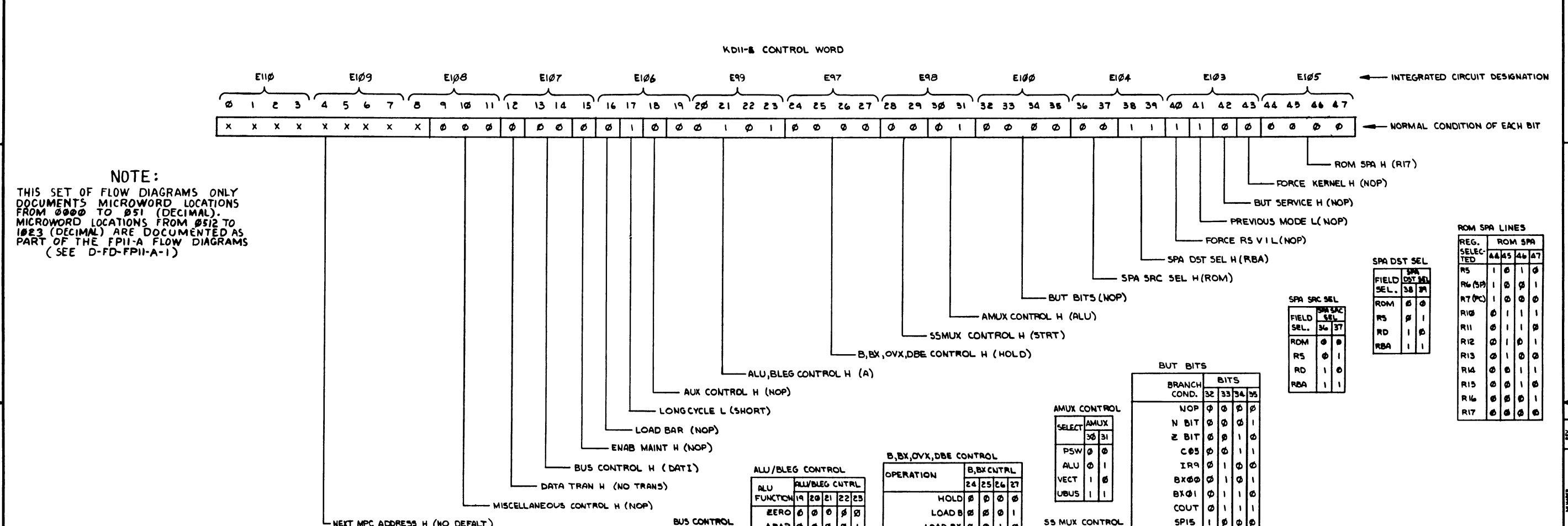
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REVISIONS		REV.			USED ON OPTION/MODEL		DRN.	DATE	digital TITLE: 1134A PROCESSOR									
CHG. NO.			1134A		D. HEALY	OCT 76												
					CHK'D	DATE												
					D. HEALY	OCT 76												
					PROJ. ENG.	DATE												
DATE							FW matched	12-20-76	SIZE B CODE TC NUMBER KD11-EA-3 REV.									
			SHEET I OF I				FIELD SERV.	DATE	DIST.									
							Log. Exam	12-20-76										

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OPERATION	MISC
NOP	0 0 0
LOAD IR	0 0 1
LOAD PSW	0 1 0
LOAD CC	0 1 1
BUT DEST	1 0 0
ENAB STOV	1 0 1
LOAD CNT	1 1 0
COUNT	1 1 1

OPERATION	CNTRL
DATI	0 1
DATO	1 0
DATOB	1 1

ALU FUNCTION	19	20	21	22	23
EERO	0	0	0	0	0
ABAR	0	0	0	0	1
A+1	0	0	0	1	0
A-1	0	0	0	1	1
A-B	0	0	1	0	0
A	0	0	1	0	1
B	0	0	1	1	0
ONE BAR	0	0	1	1	1
4+B	0	1	0	0	0
A-B	0	1	0	0	1
ABAR-B	0	1	0	1	0
AVB	0	1	0	1	1
A*B	0	1	1	0	0
A-BBAR	0	1	1	0	1
K16	0	1	1	1	0
A+B+1	1	0	0	0	0
A+Bx	1	0	0	0	1
A-Bx	1	0	0	1	0
A+Bx+1	1	0	0	1	1
A+2	1	0	1	0	0
A-2	1	0	1	0	1
A+A	1	0	1	1	0
Bx	1	0	1	1	1
BBAR	1	1	0	0	0
Bx BAR	1	1	0	0	1
A+A+1	1	1	0	1	0

OPERATION	24	25	26	27
HOLD	0	0	0	0
LOAD B	0	0	0	1
LOAD BX	0	0	1	0
SL(BX-0), LDB	0	0	1	1
SL(BX-COUT), LDB	0	1	0	0
SL(BX-1), LDB	0	1	0	1
SL(B-0)	0	1	1	0
SL(B-0), LDBX	0	1	1	1
SL(B-BX15)	1	0	0	0
SL(BX-0)	1	0	0	1
SL(BX-1)	1	0	1	0
SL(BX-OVX)	1	0	1	1
SL(BX-COUT)	1	1	0	0
SL(B-BX-0)	1	1	0	1
SR(B15-B-BX)	1	1	1	0
ENAB DBE	1	1	1	1

SELECT	AMUX
PSW	0 0
ALU	0 1
VECT	1 0
UBUS	1 1

BRANCH COND.	32	33	34	35
NOP	0	0	0	0
N BIT	0	0	0	1
Z BIT	0	0	1	0
C05	0	0	1	1
IR9	0	1	0	0
BX00	0	1	0	1
BX01	0	1	1	0
COUT	0	1	1	1
SPI5	1	0	0	0
NBIT + Z BIT	1	0	0	1
BX00 + SPI5	1	0	1	0
BX01 + BX00	1	0	1	1
C05 + BX01 + BX00	1	1	0	0
NBIT + C05	1	1	0	1
BX00 + C05	1	1	1	0
ALL	1	1	1	1

SELECT	SS
STRT	0 0
SEX	0 1
SWAB	1 0
EXTNVL	1 1

MODE L(NOP)

L(NOP)

SPA SRC SEL

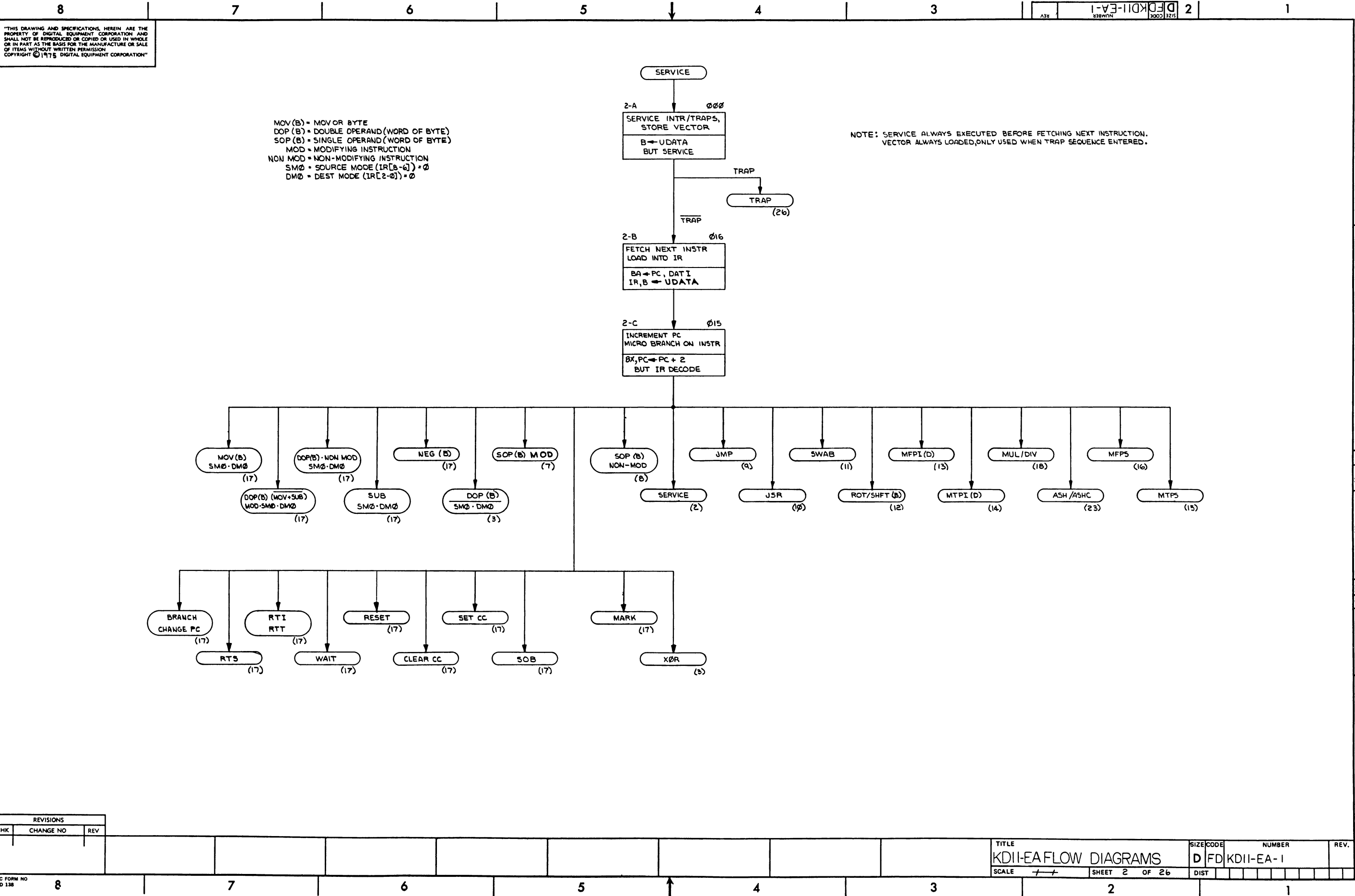
FIELD SEL.	SPA SRC SEL	
	36	37
ROM	0	0
RS	0	1
RD	1	0
RBA	1	1

SPA DST SEL		
FIELD SEL.	SPA DST SEL	
	38	39
ROM	0	0
RS	0	1
RD	1	0
RBA	1	1

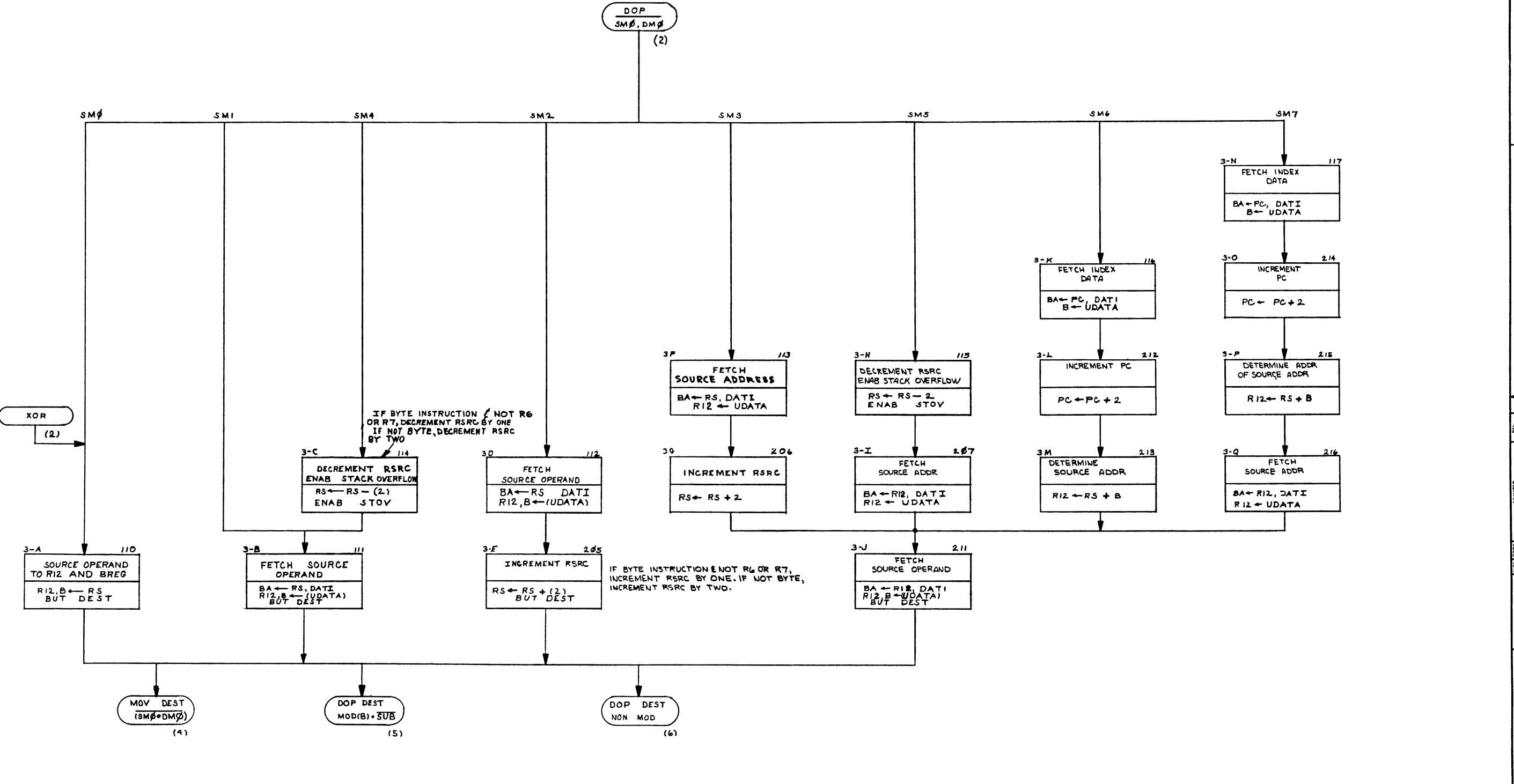
REG. SELECTED	44	45	46	47
R5	0	0	1	0
R6 (SP)	0	0	0	1
R7 (PC)	0	0	0	0
R10	0	1	1	1
R11	0	1	1	0
R12	0	1	0	1
R13	0	1	0	0
R14	0	0	1	1
R15	0	0	1	0
R16	0	0	0	1
R17	0	0	0	0

REV	CHANGE NO.
1	1

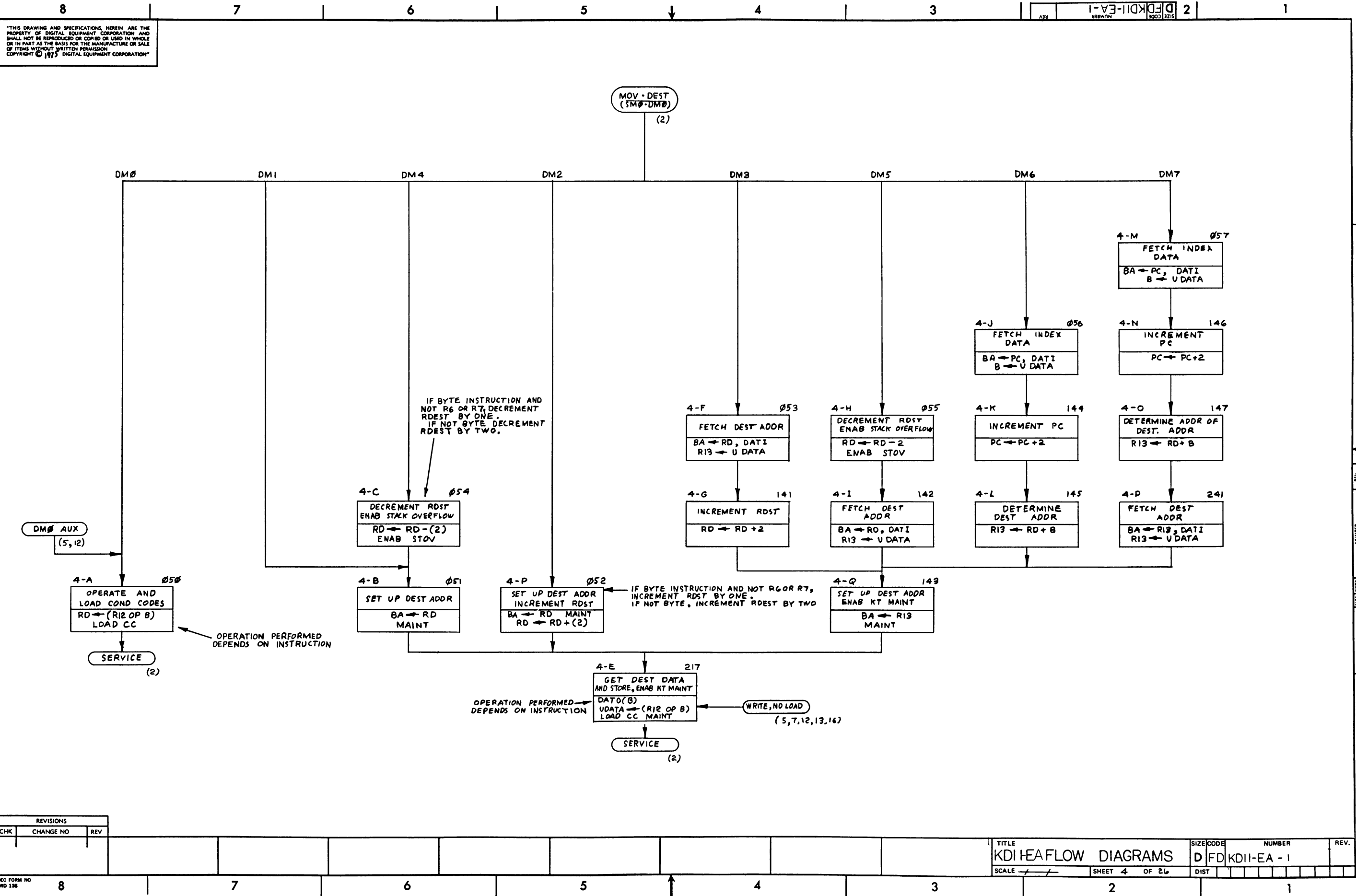
FIRST USED ON OPTION/MODEL 1134A		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		digital			
THIRD ANGLE PROJECTION		TITLE KDII-EA FLOW DIAGRAMS			
MATERIAL		B-DD-KDII-EA			
FINISH		SCALE			
SHEET 1 OF 26		DIST			



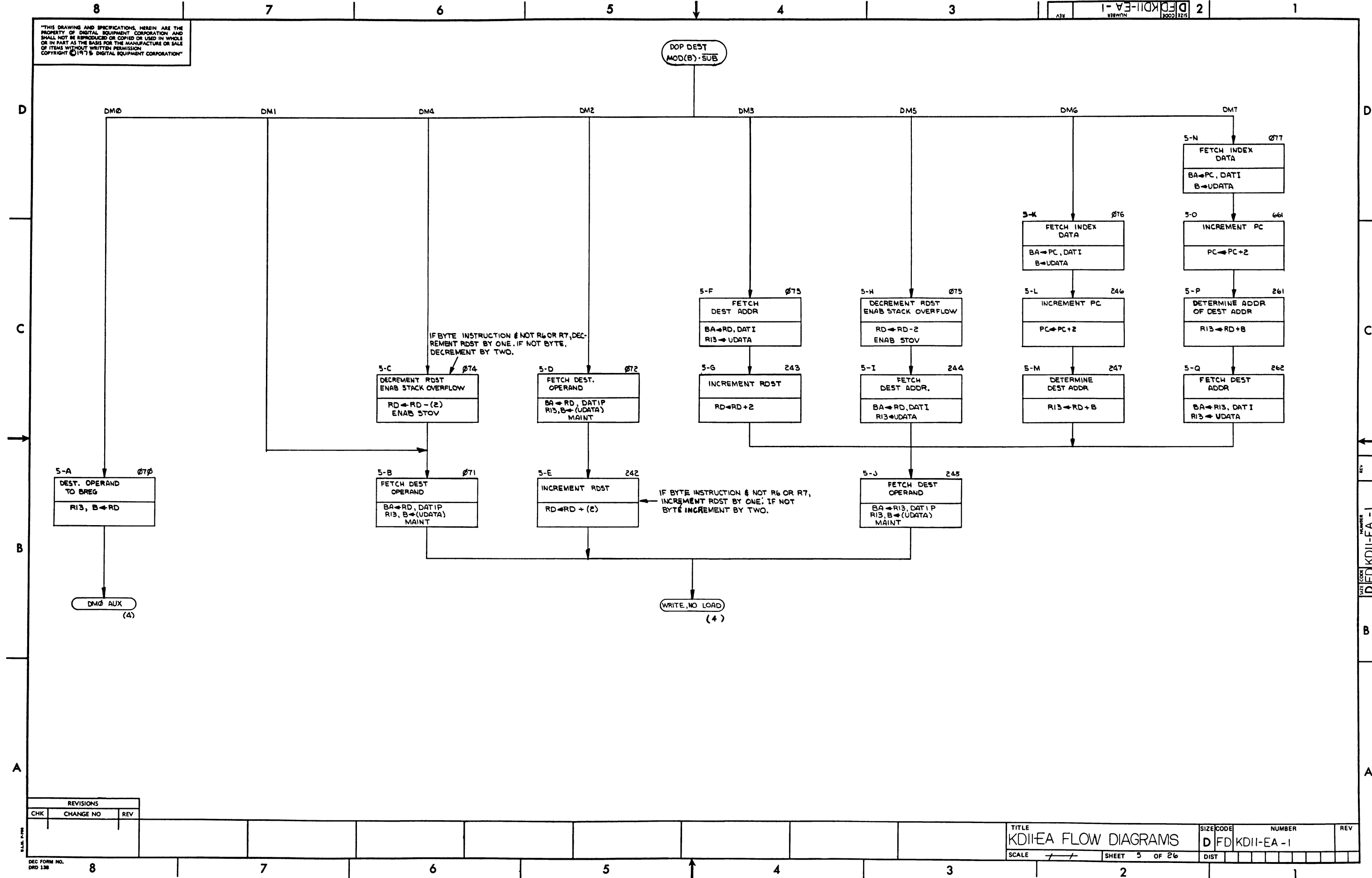
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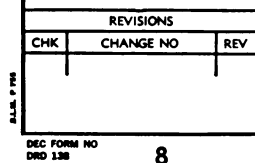


REVISIONS		
CHK	CHANGE NO	REV



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8

7

6

5

4

3

2

1

SIZE CODE
D
FDKDII-EA-1
NUMBER
REV

SOP
MOD
(2)

DM0

DM1

DM4

DM2

DM3

DM5

DM6

DM7

7-M
047
FETCH INDEX DATA
BA ← PC, DATI
BX ← U DATA

7-K
046
FETCH INDEX DATA
BA ← PC, DATI
BX ← U DATA

7-O
303
INCREMENT PC
PC ← PC + 2

7-L
301
INCREMENT PC
PC ← PC + 2

7-P
304
DETERMINE ADDR OF DEST, ADDR
R12 ← RD + BX

7-M
302
DETERMINE DEST ADDR
R12 ← RD + BX

7-Q
305
FETCH DEST ADDR,
BA ← R12, DATI
R12 ← U DATA

7-F
043
FETCH DEST ADDR
BA ← RD, DATI
R12 ← U DATA

7-H
045
DECREMENT RDST
ENAB STACK OVERFLOW
RD ← RD - 2
ENAB STOV

7-G
276
INCREMENT RDST
RD ← RD + 2

7-I
277
FETCH DEST ADDR
BA ← RD, DATI
R12 ← U DATA

7-J
300
FETCH DEST OPERAND
BA ← R12, DATI
R12 ← (U DATA), MAINT

IF BYTE INSTRUCTION AND NOT R6 OR R7, DECREMENT RDST BY ONE, IF NOT BYTE, DECREMENT BY TWO.

7-C
044
DECREMENT RDST
ENAB STACK OVERFLOW
RD ← RD - (2)
ENAB STOV

7-D
042
FETCH DEST OPERAND
BA ← RD, DATI
R12 ← (U DATA), MAINT

7-E
275
INCREMENT RDST
RD ← RD + (2)
IF BYTE INSTRUCTION AND NOT R6 OR R7, INCREMENT RDST BY ONE
IF NOT BYTE, INCREMENT BY TWO

7-B
041
FETCH DEST OPERAND
BA ← RD, DATI
R12 ← (U DATA), MAINT

7-A
040
OPERATE AND LOAD COND CODES
RD ← (RD OP B)
LOAD CC

OPERATION PERFORMED DEPENDS ON INSTRUCTION

SERVICE
(2)

WRITE, NO LOAD
(4)

REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO
DMD 130

8

7

6

5

4

3

2

1

TITLE
KDII-EA FLOW DIAGRAMS

SIZE CODE
D
FDKDII-EA-1

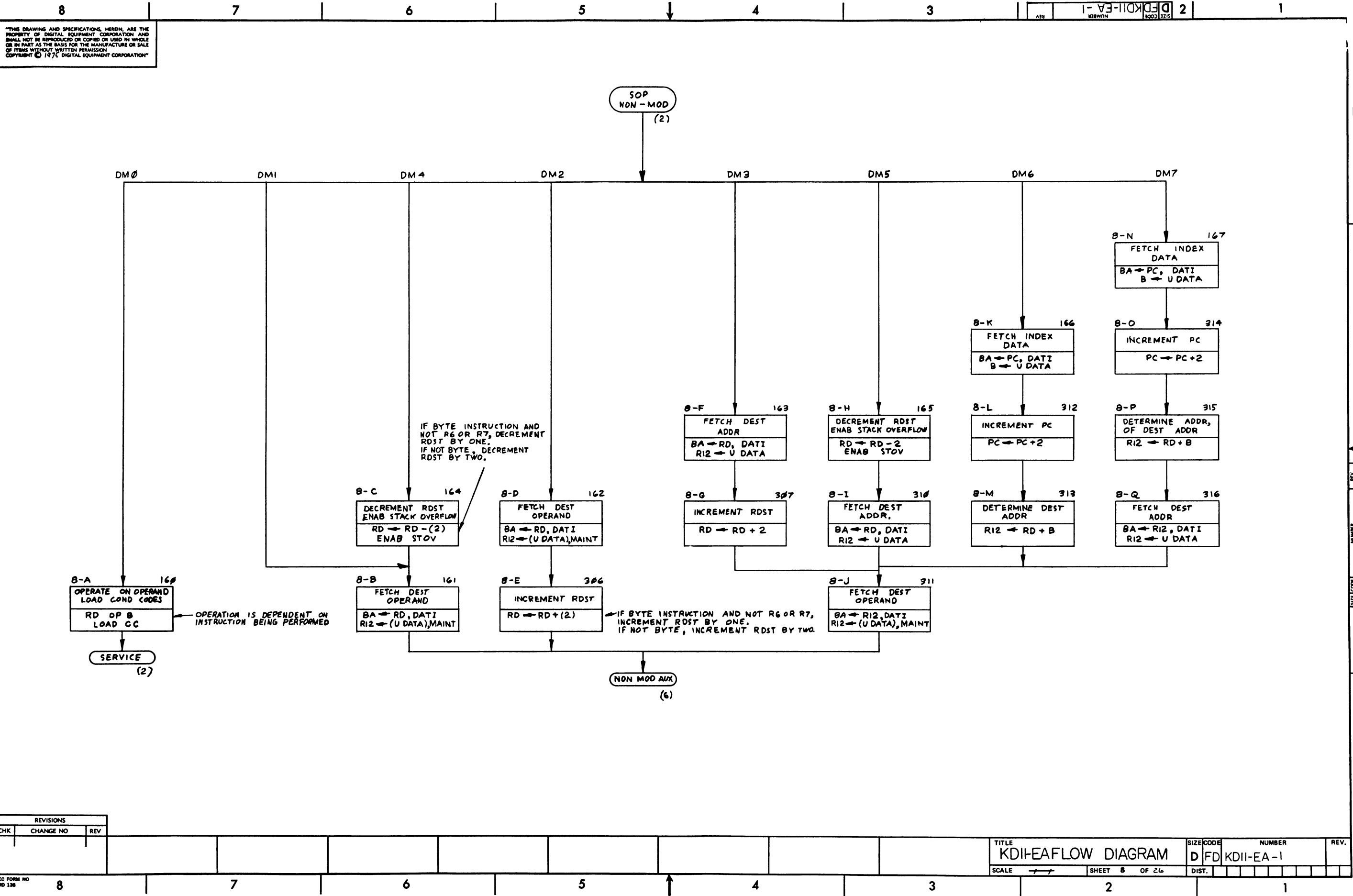
NUMBER

REV

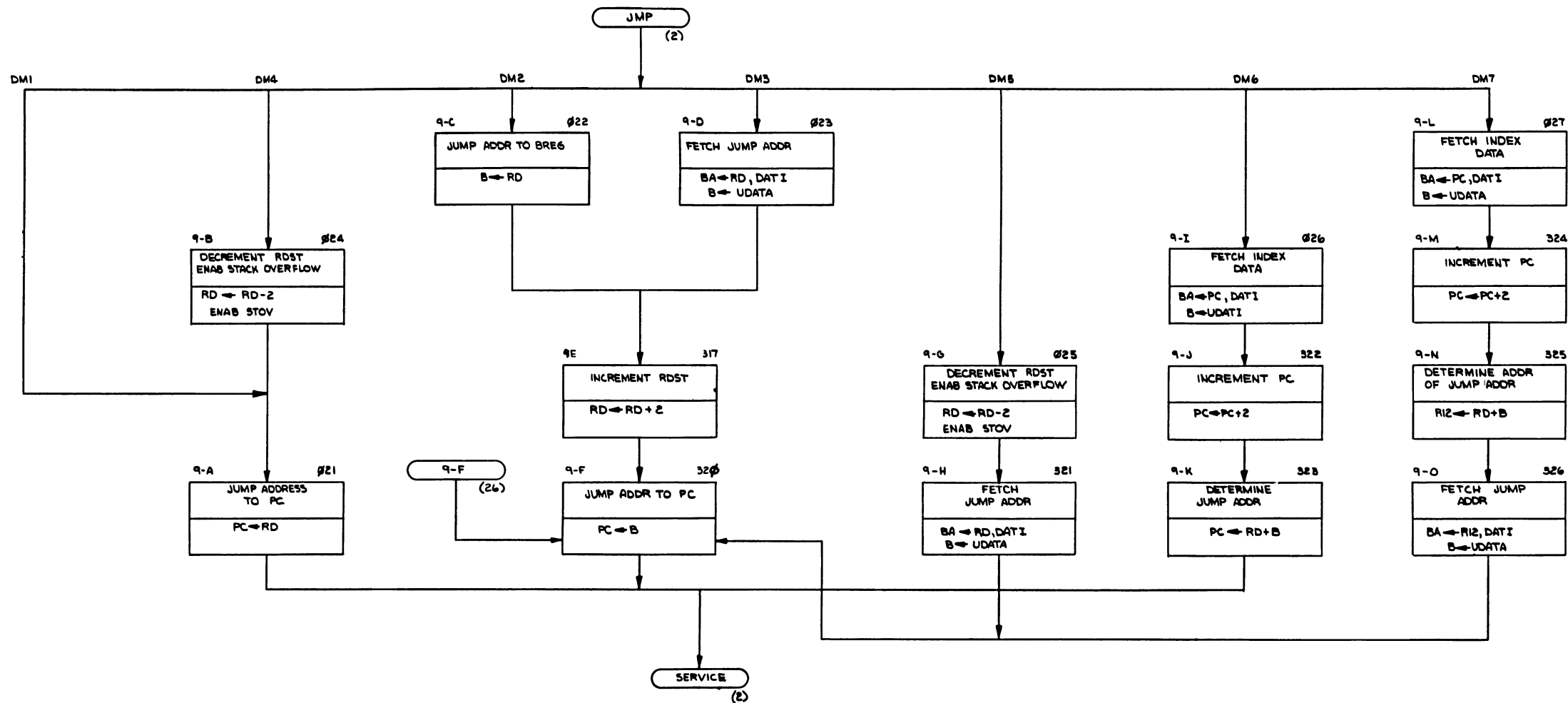
SCALE

SHEET 7 OF 26

DIST



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REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO.
ORD 138

TITLE
KDII-EA FLOW DIAGRAMS
SCALE 1/1

SIZE CODE
D FDKDII-EA - I

NUMBER

REV.

SHEET 9 OF 26

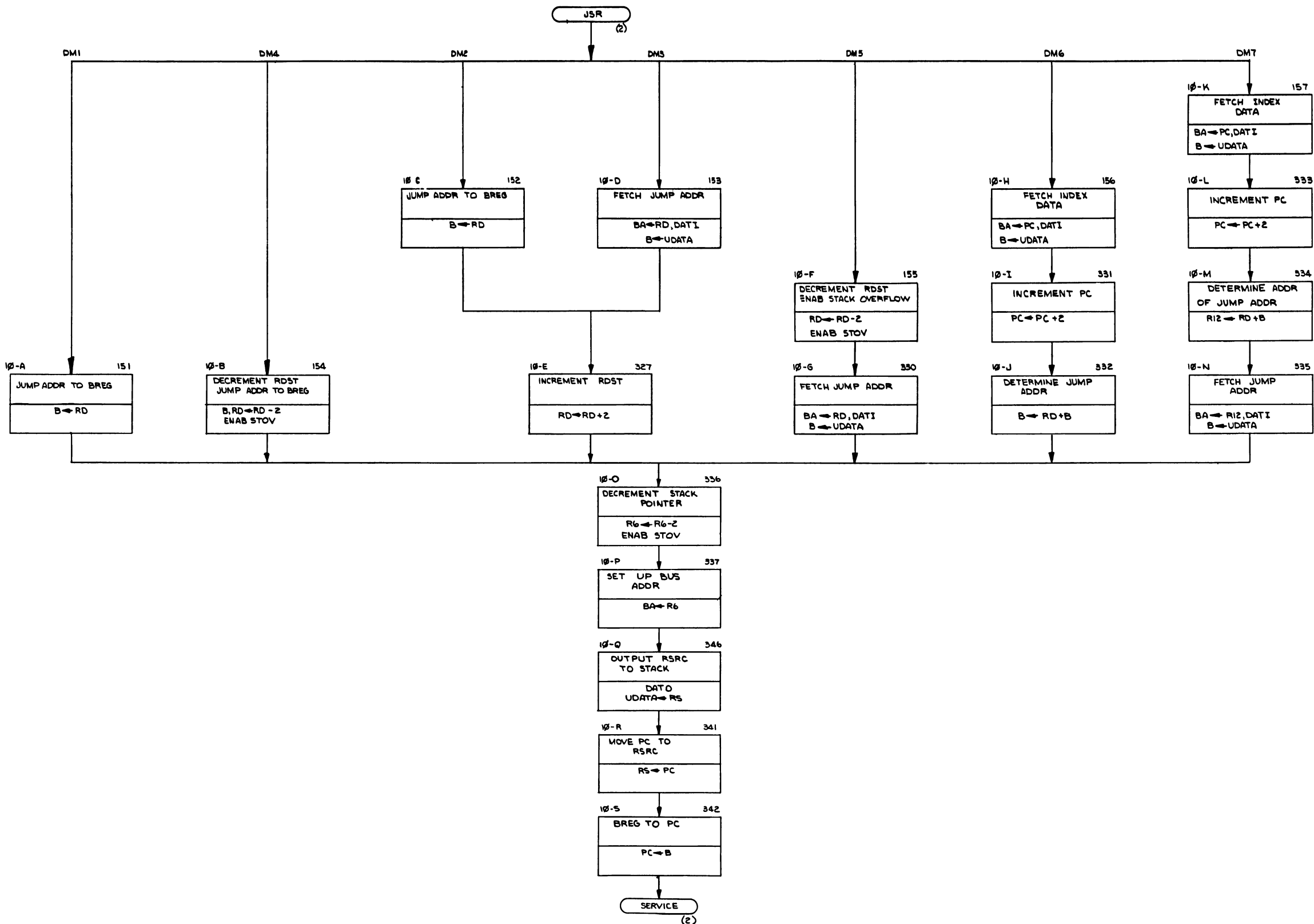
DIST.

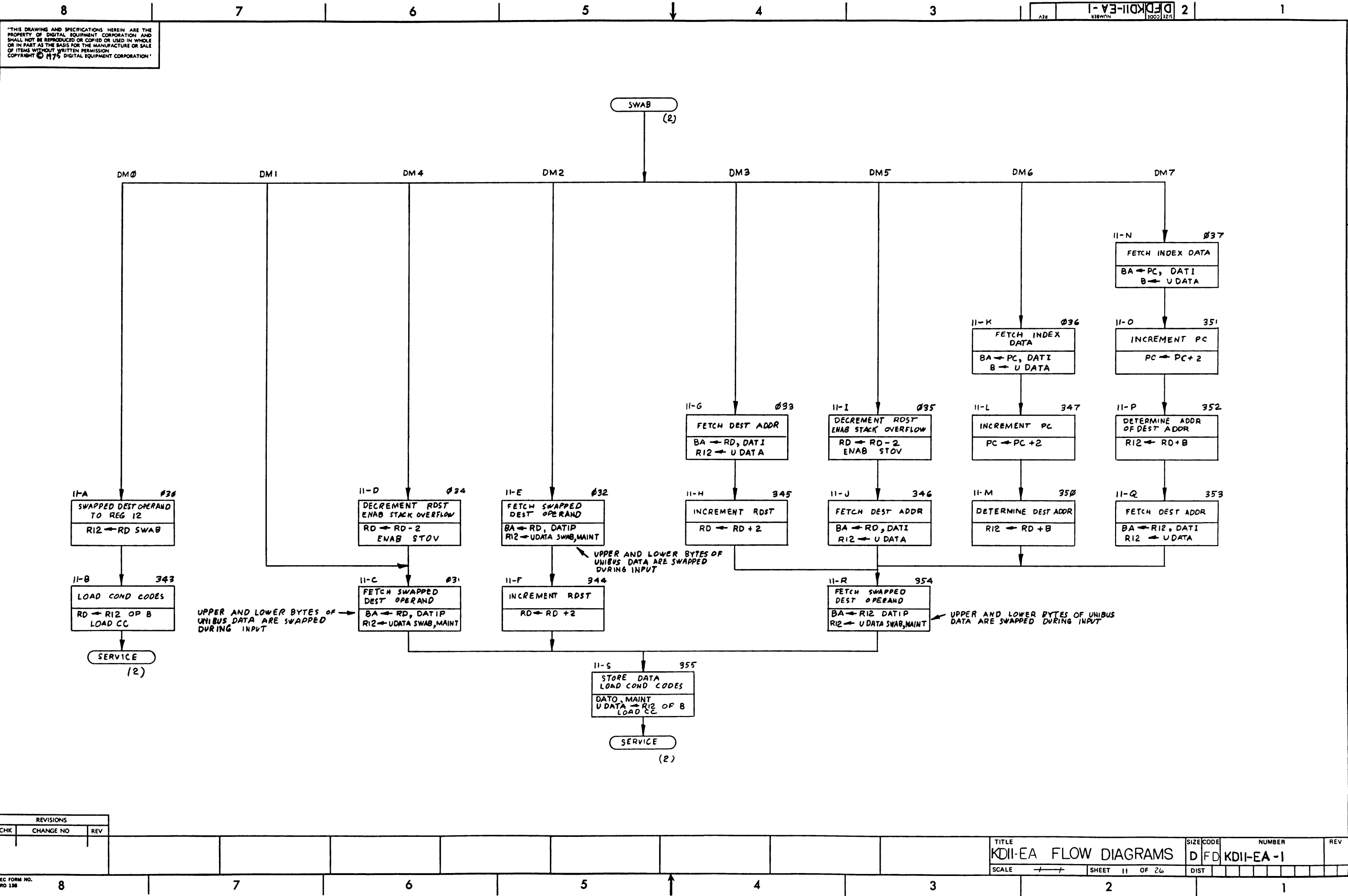
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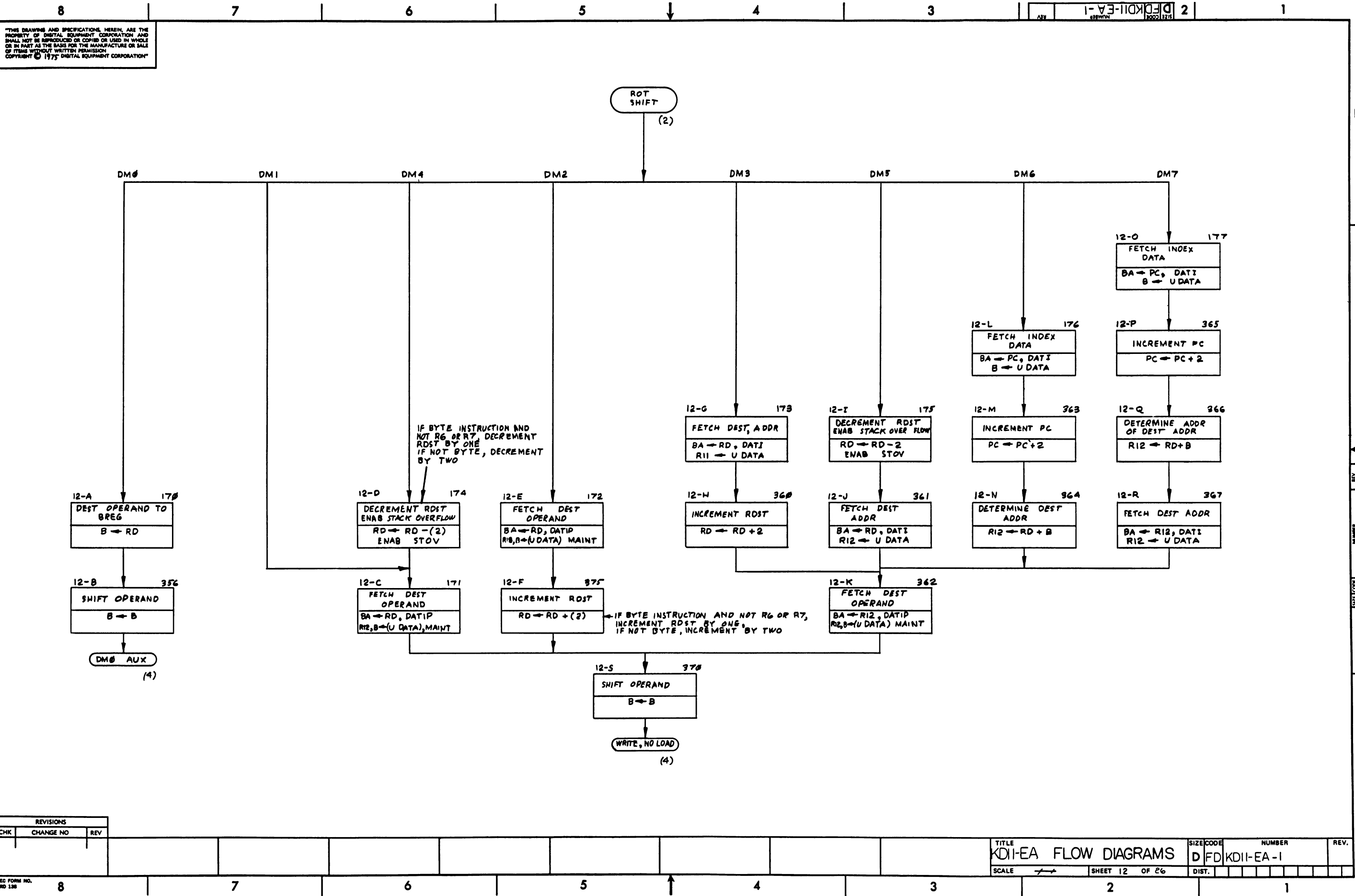
REVISIONS		
CHK	CHANGE NO	REV

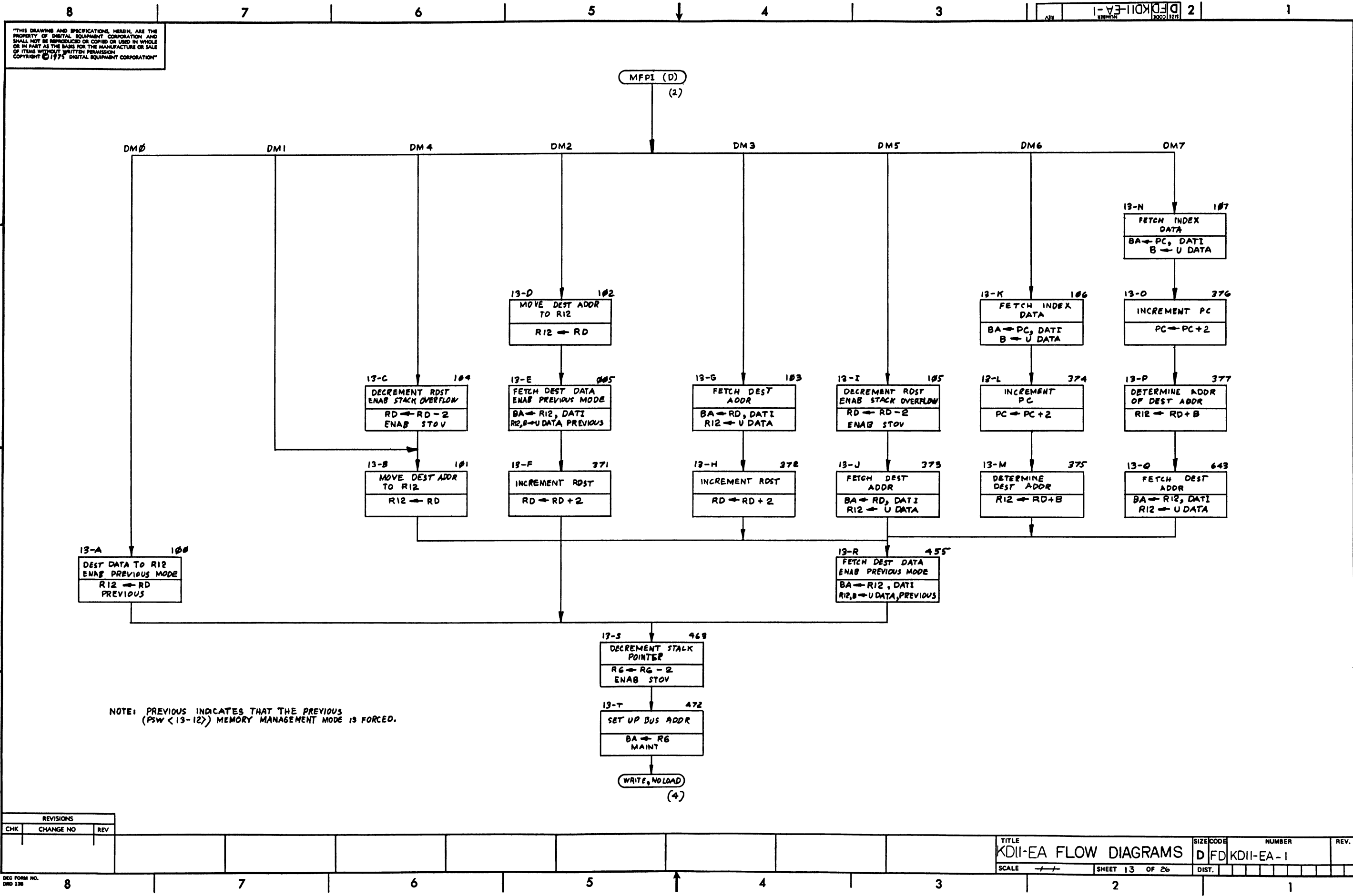
DEC FORM NO.
DMD 138

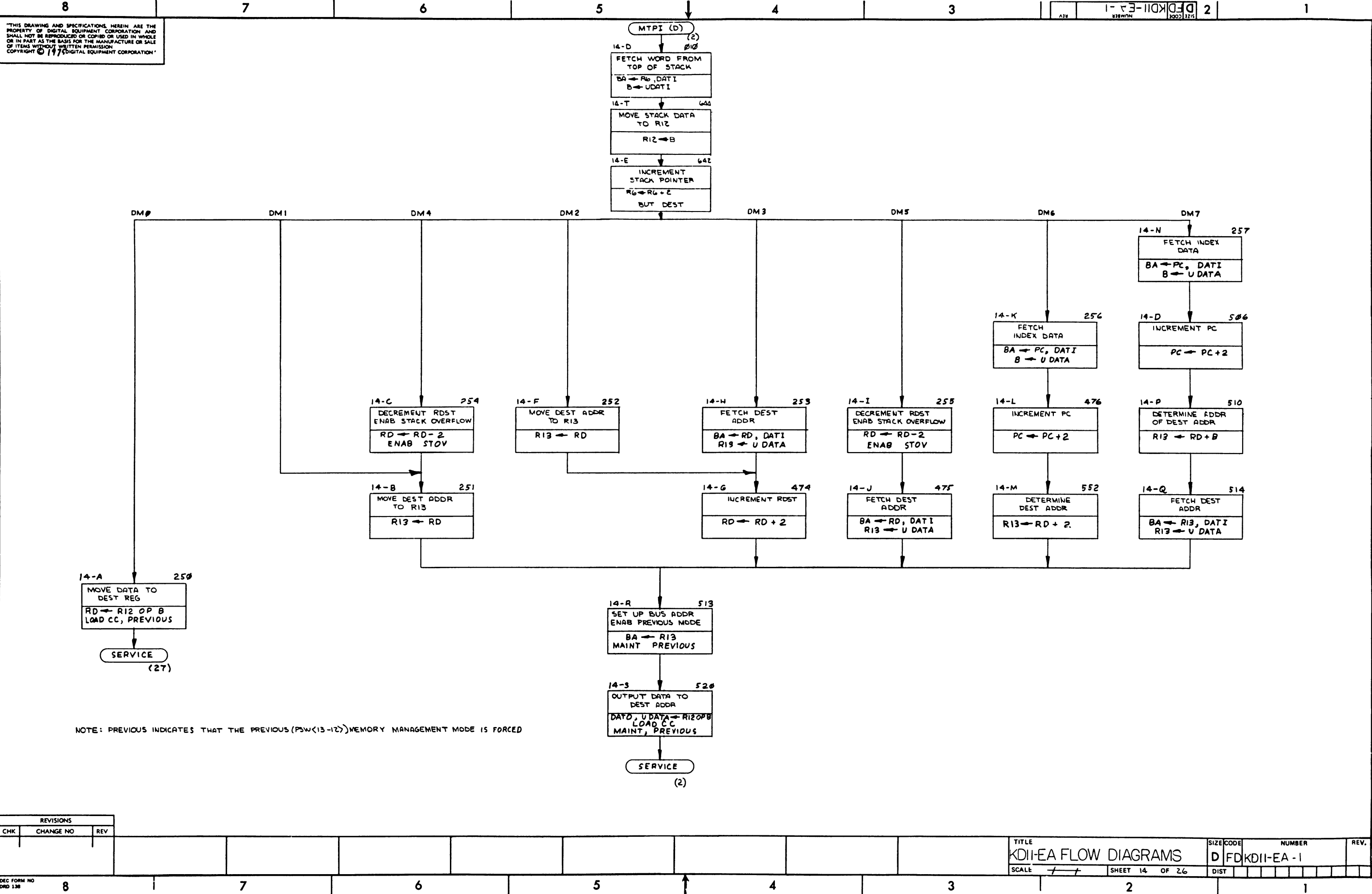
TITLE	SIZE CODE	NUMBER	REV.
KDII-EA FLOW DIAGRAMS	D FD	KDII-EA-1	
SCALE	DIST.		

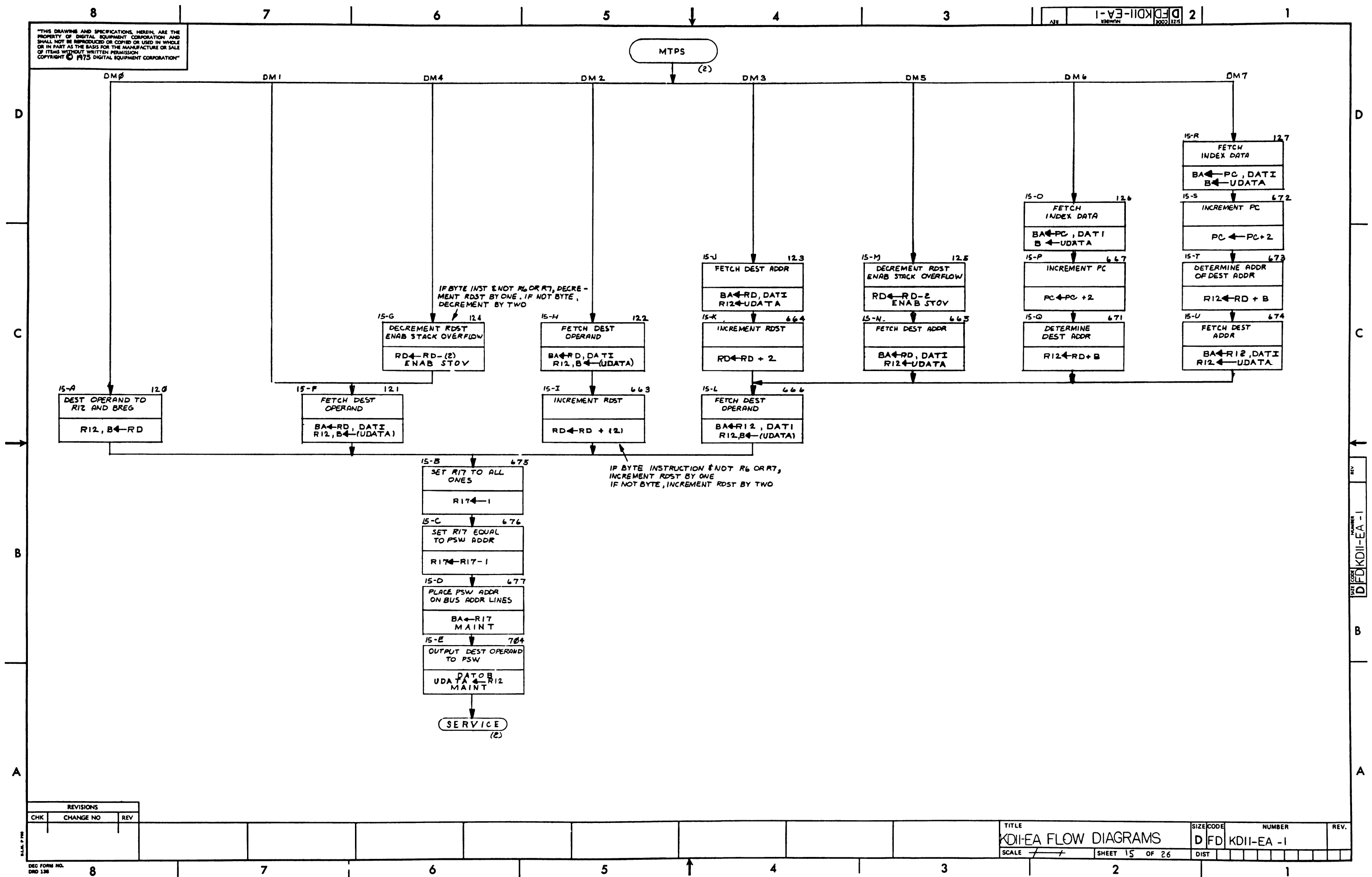






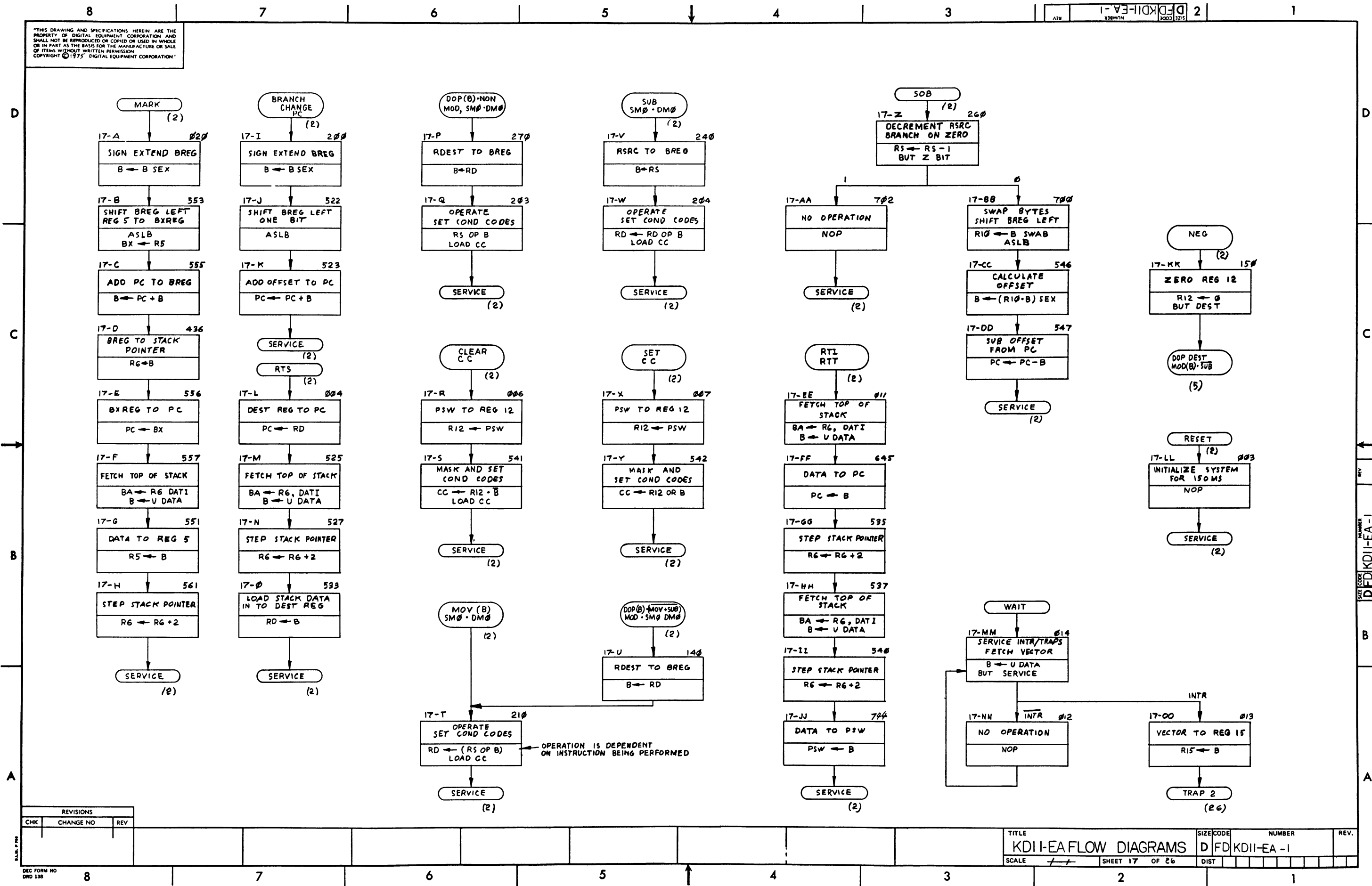


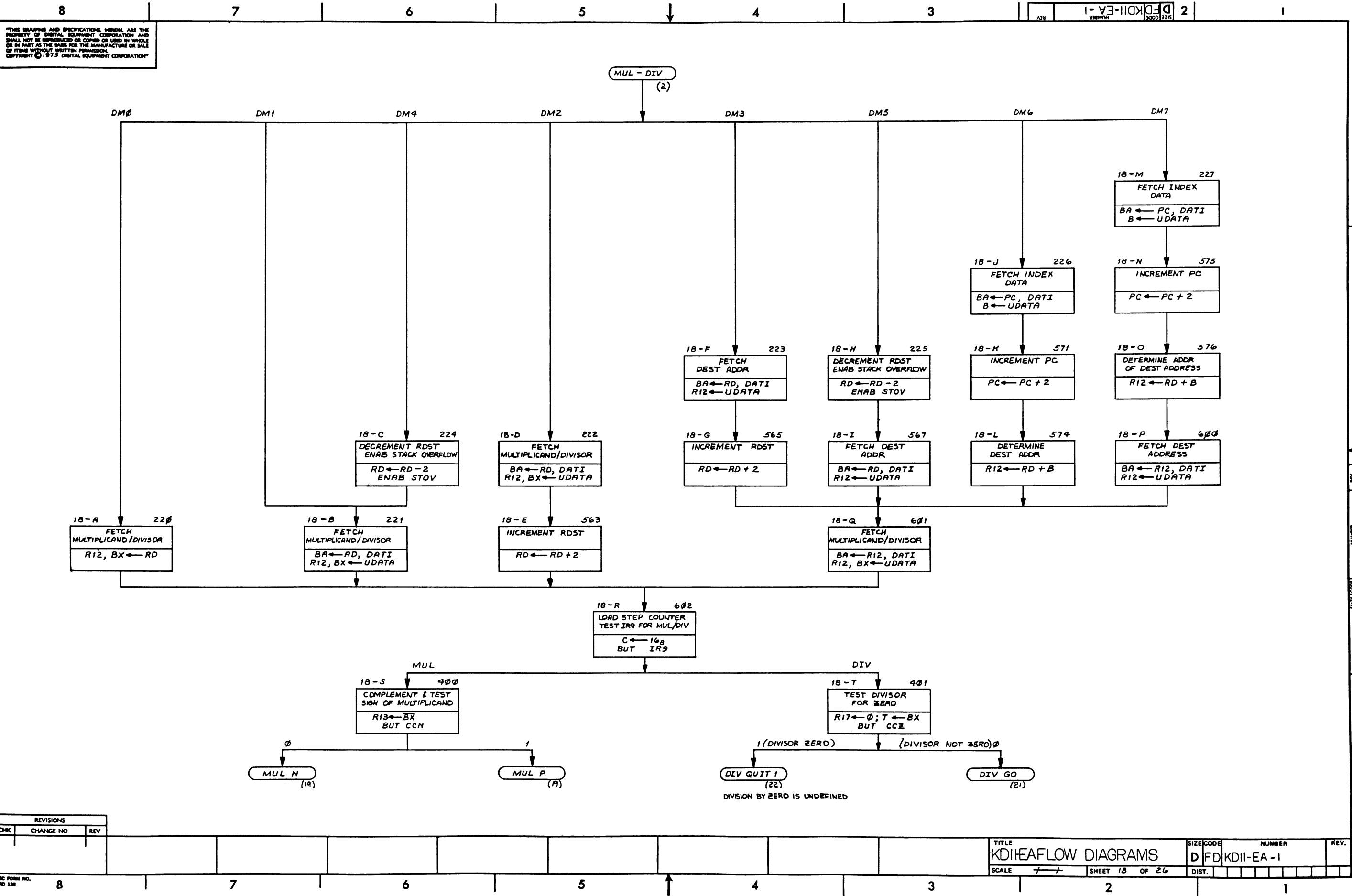


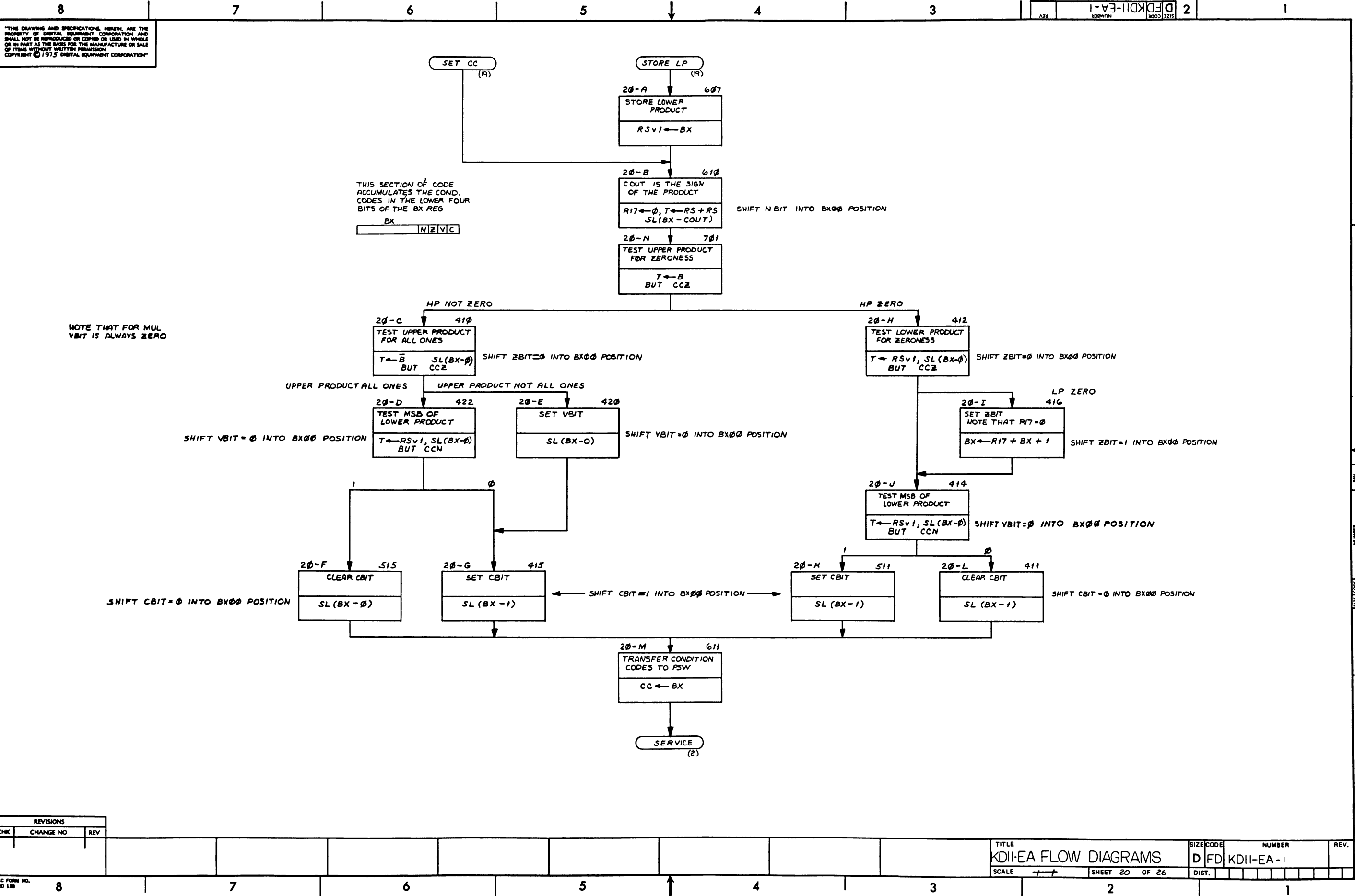




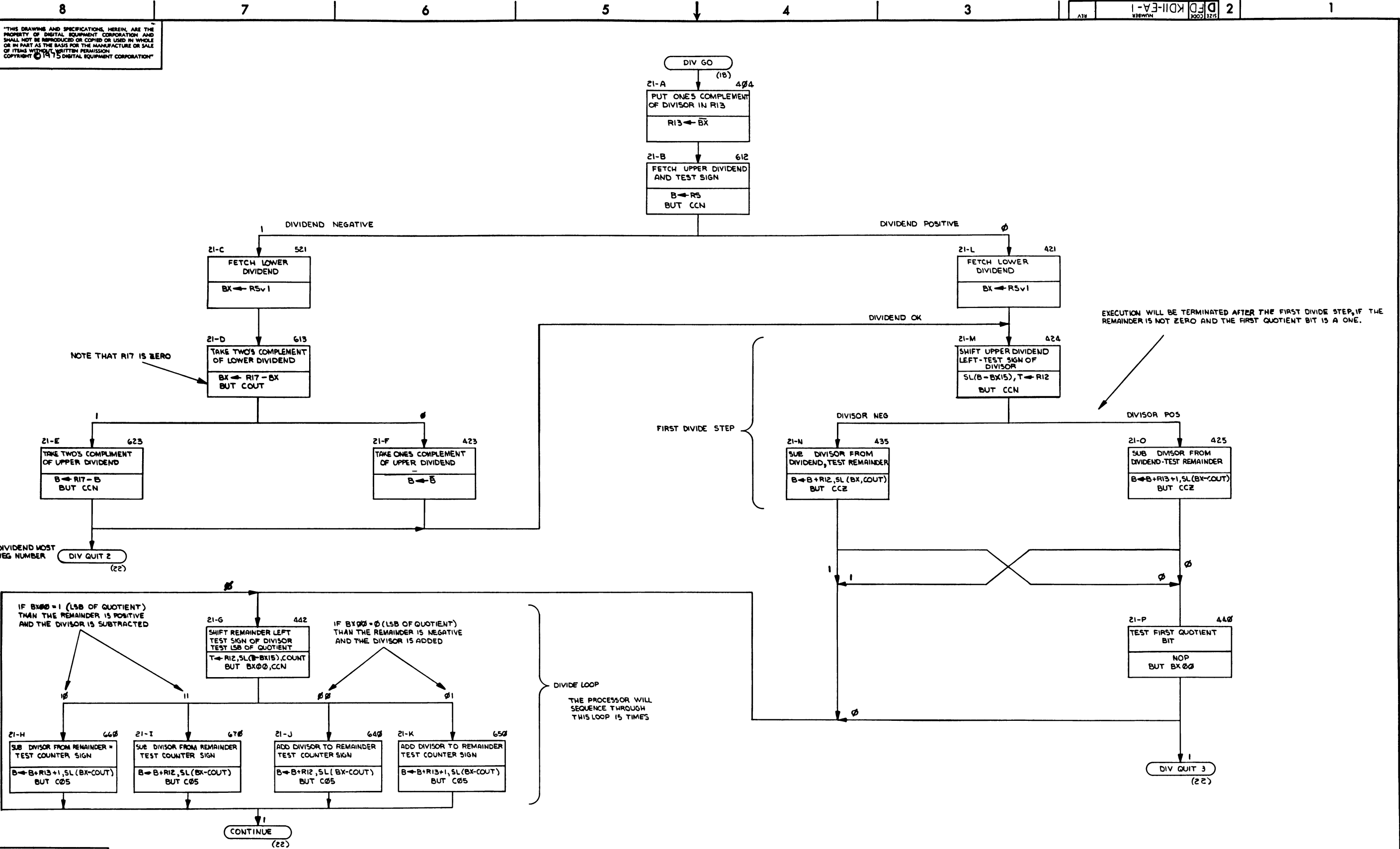
	8	7	6	5	4	3	2	1
DATE FORM NO. REV. 1-90								



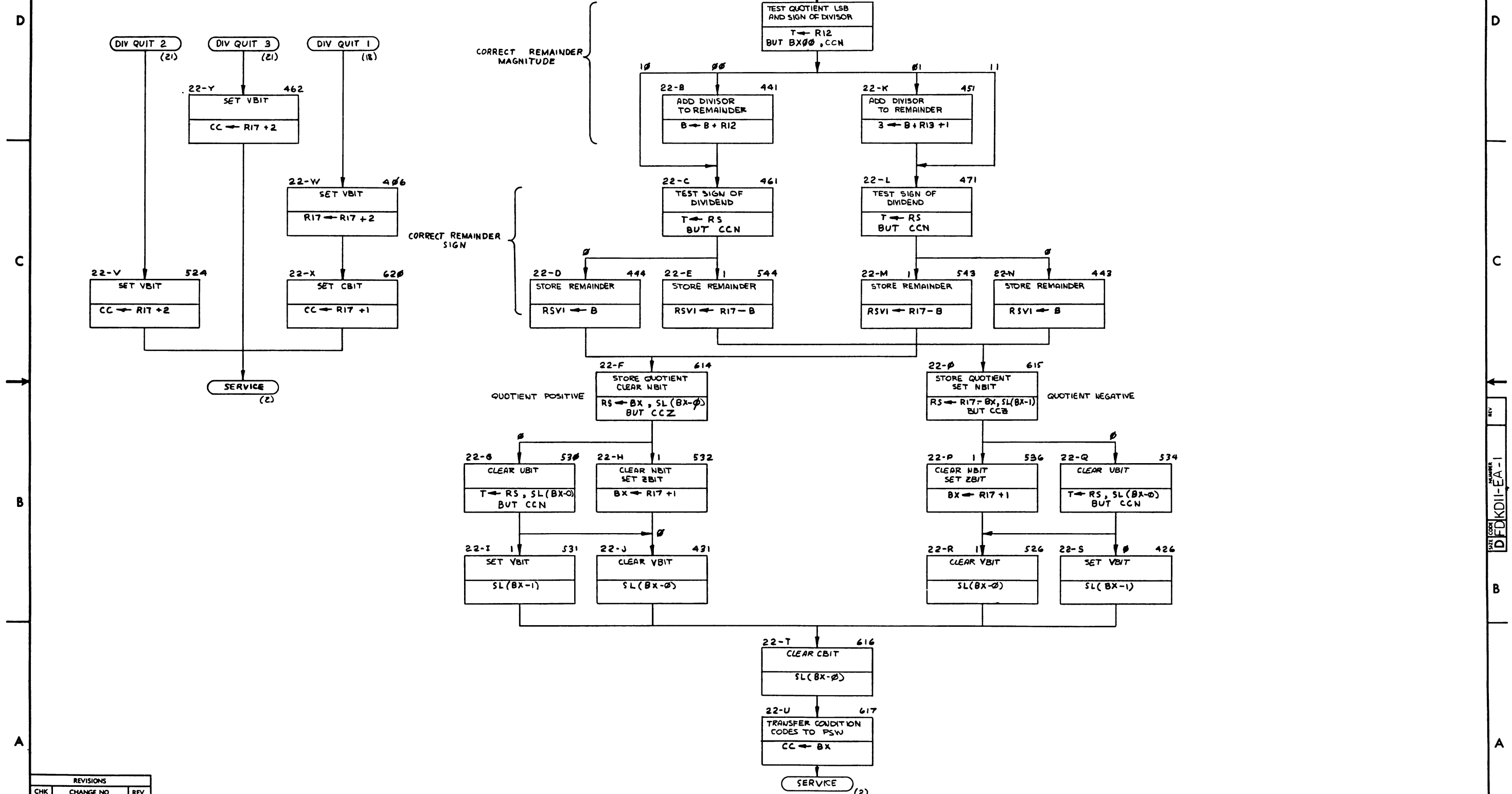




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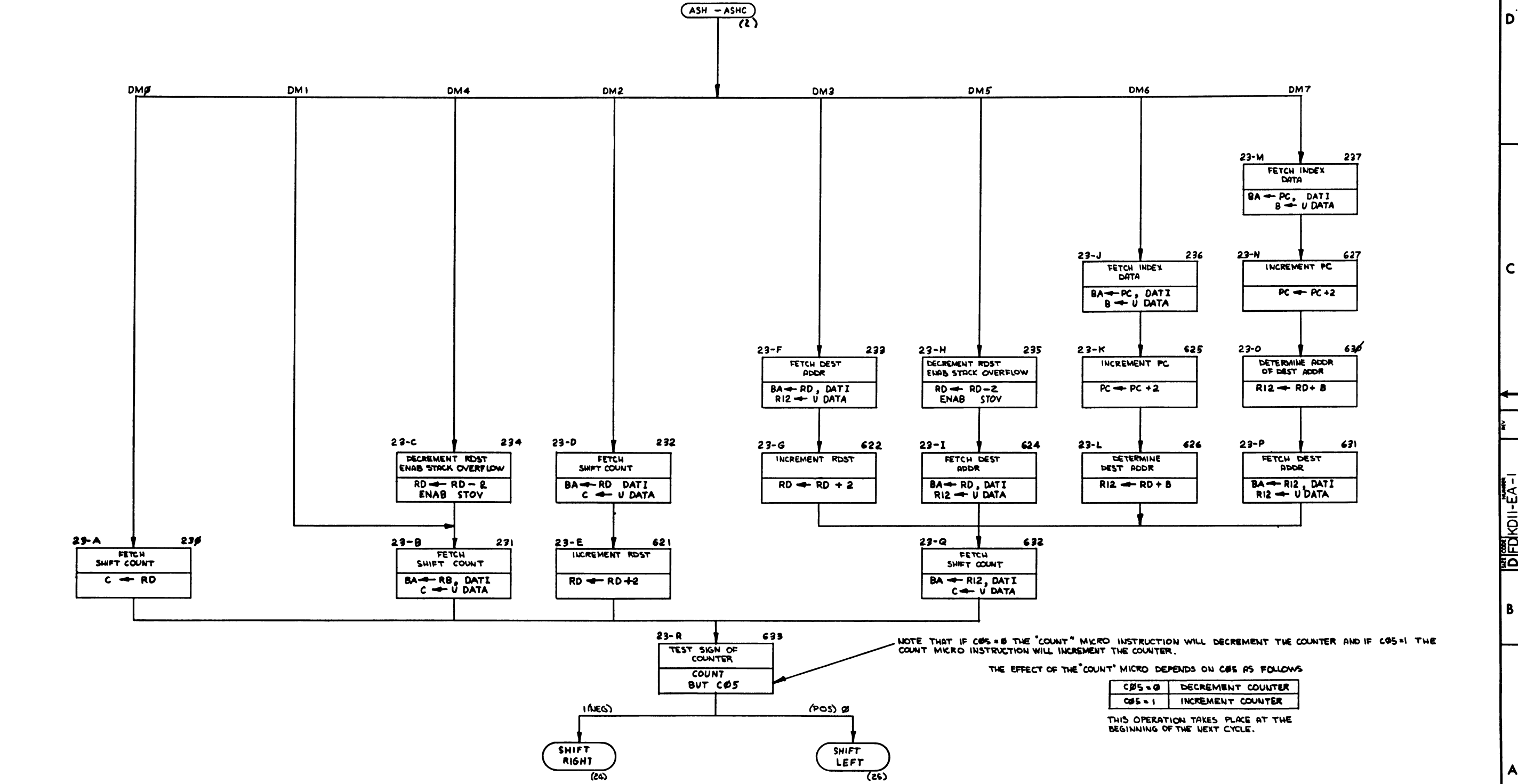


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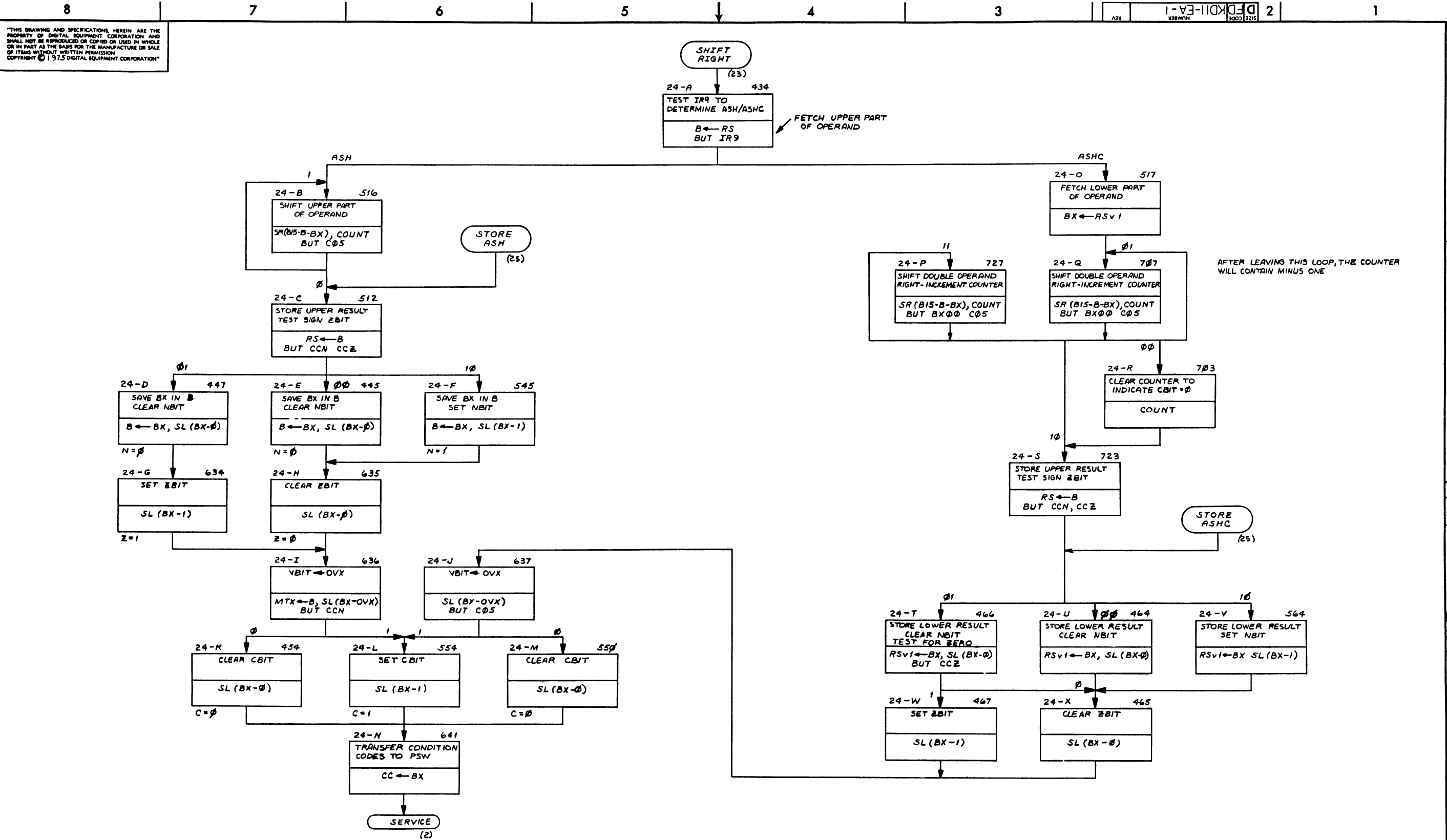
REVISIONS		
CHK	CHANGE NO	REV

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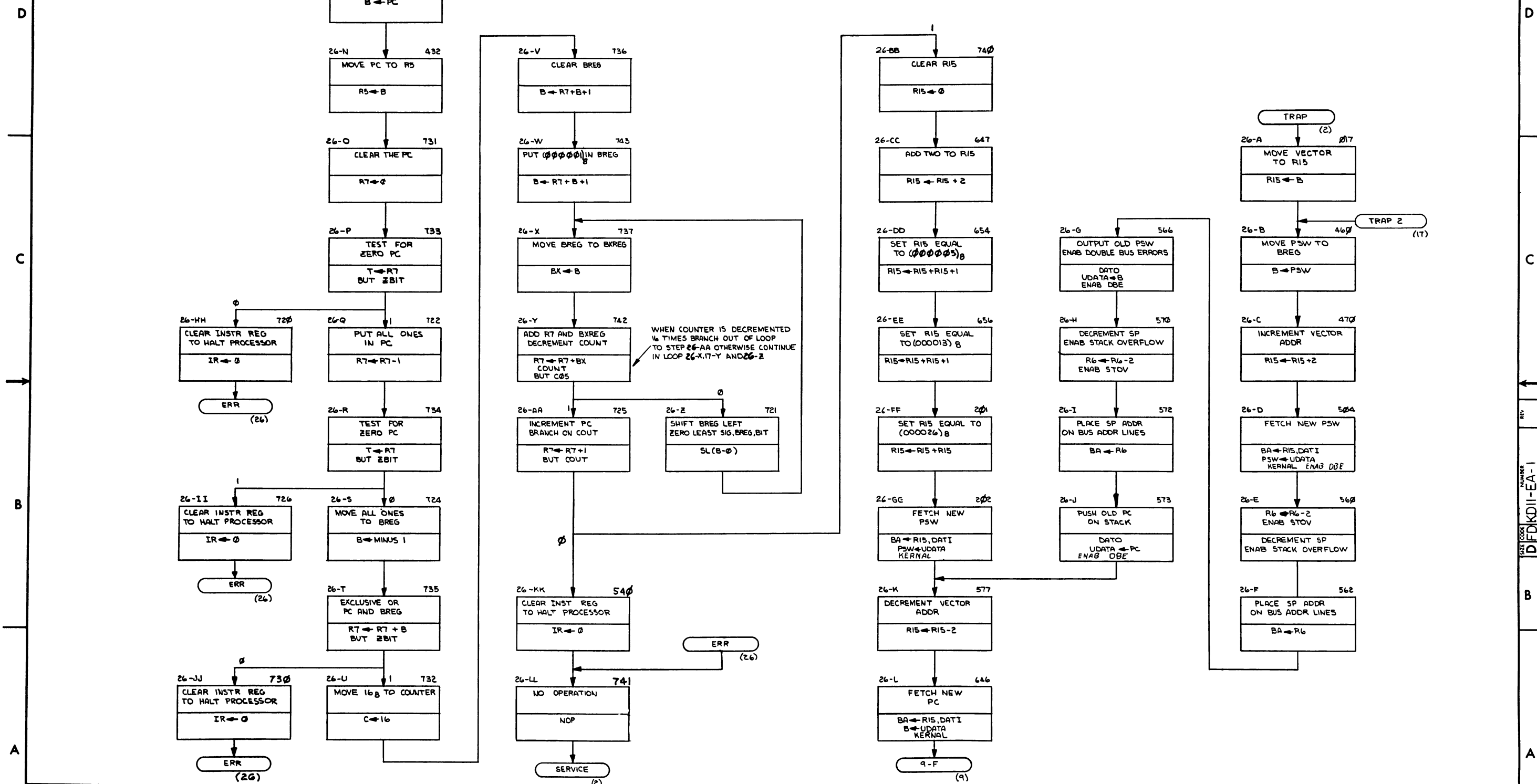


REVISIONS		
CHK	CHANGE NO	REV

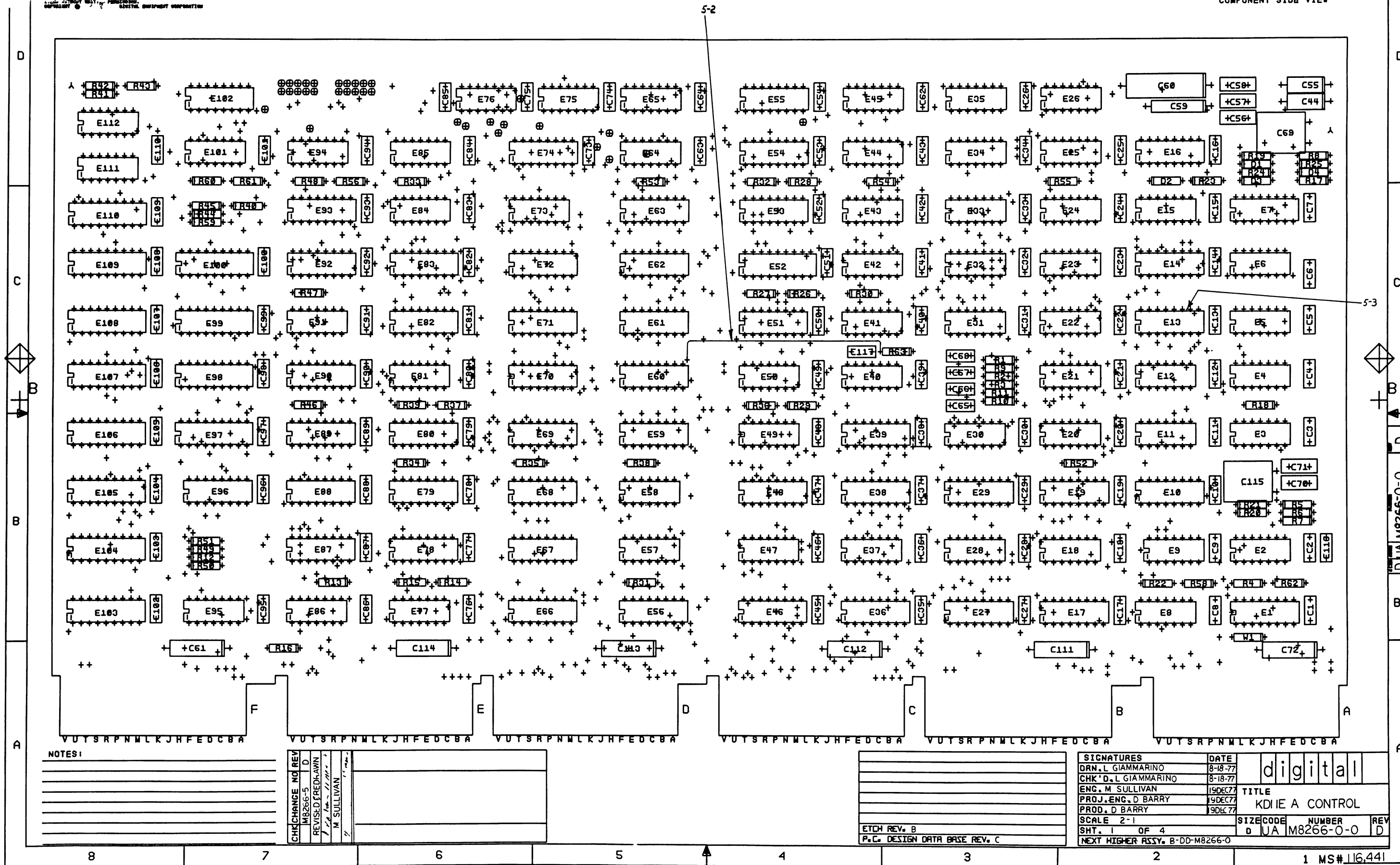
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REVISIONS		
CHK	CHANGE NO	REV



REVISIONS		
CHK	CHANGE NO	REV



NOTES:

CHK	CHANGE NO.	REV
M8266-5	D	
REVISED FROM	AWIN	
11/11/77		
M SULLIVAN		
11/11/77		

ETCH REV. B
P.C. DESIGN DATA BASE REV. C

SIGNATURES		DATE	digital	
DRN. L GIAMMARINO		8-18-77		
CHK. D. L GIAMMARINO		8-18-77		
ENG. M SULLIVAN		19DEC77	TITLE	
PROJ. ENG. D BARRY		19DEC77	KDIE A CONTROL	
PROD. D BARRY		19DEC 77		
SCALE 2-1		SIZE	CODE	NUMBER
SHT. 1 OF 4		D	UA	M8266-0-0
NEXT TITLE REF. P-20-M8266-0				RE D

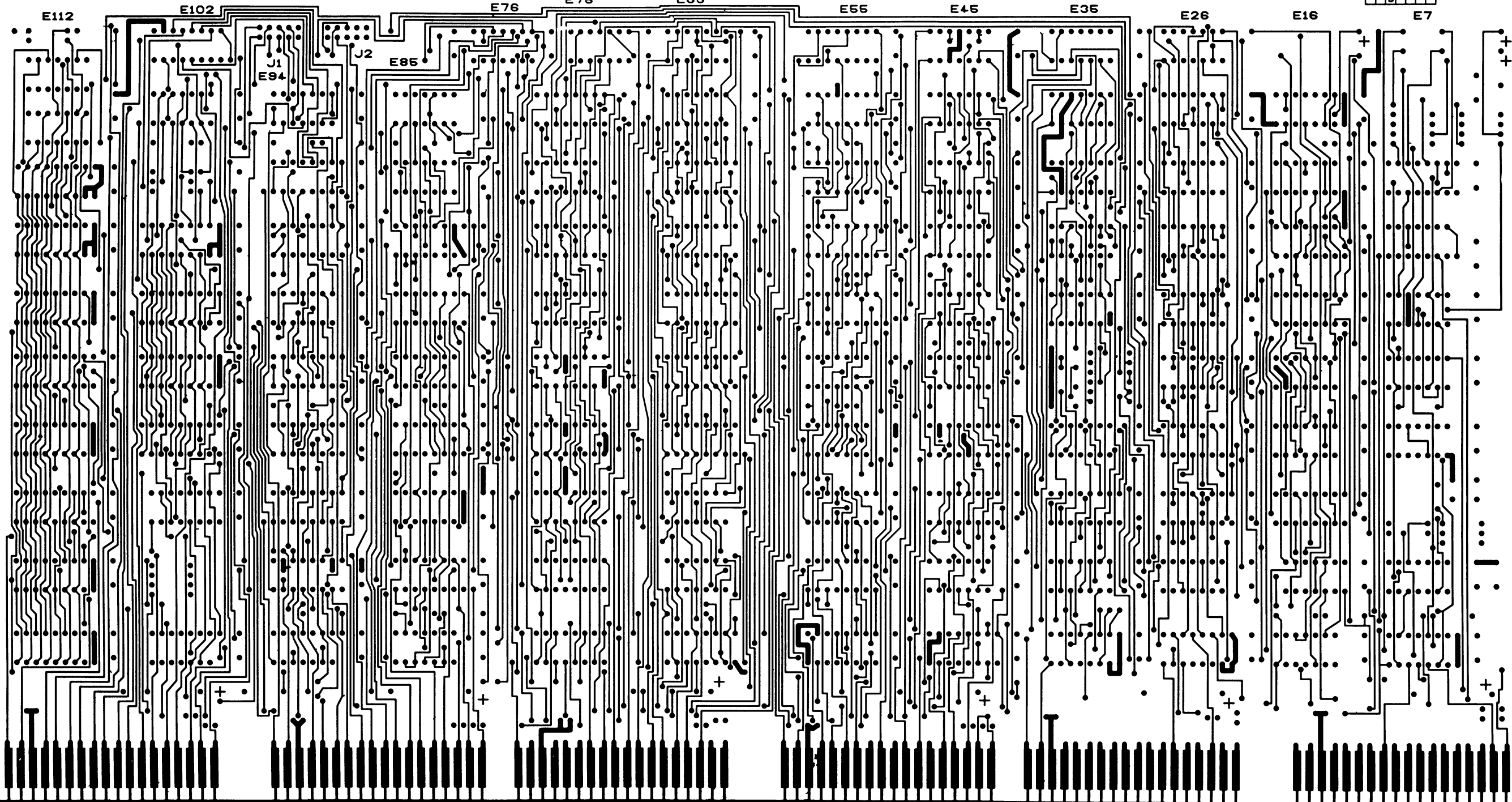
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LAYER 1

CS*ABCDEFGHIJKLMNPRS

SIDE 1

digital



REVISIONS		
CHK	CHANGE NO	REV

DATE FORM 100
REV 137

TITLE		SIZE CODE	NUMBER	REV.
KD11E-A CONTROL		DUA	M8266-0-0	D
SCALE	2-1	SHEET	2 OF 4	DIST

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834AJ

0-0-9928W M8266-0-0

L4

KD11E-A CONTROL
5012434 BP2 M8266

SIDE 2

S-1

REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV
KD11E-A CONTROL		D UA	M8266-0-0	D
SCALE	2-1	SHEET	3 OF 4	DIST

DATE PLOTTED 11/1/77

DEC FORM NO 040 137

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REWORK INSTRUCTIONS

ECO #5

ETCH CUTS SIDE 2:

5-1. THE SLANTED ETCH RUN ABOVE AND TO THE LEFT OF E40-14

WIRE ADDS SIDE 1:

5-2. FROM R63 AT C117 END TO PTH LOCATED ABOVE E60-9

5-3. REMOVE E13 (P/N 1910651) AND REPLACE WITH E13 (P/N 1910957)

REVISIONS		
CHK	CHANGE NO	REV.

--	--	--

SEC FORM NO. 137

8

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3

2

1

TITLE
KDIIE-A CONTROL

SIZE CODE
D UA

NUMBER
M8266-0-0

REV.
D

SCALE 1/1

SHEET 4 OF 4

DIST.

REV. 0
NUMBER M8266-0-0
CODE 3215

2

1

REV. D

0-0

NUMBER M8266-0-0

CODE D UA

2

1

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5012434-0-0	5012434-00	M8266	1	
2	2		1000016-00	100.0 MMF 100V 5%200PPM DM15S (10-00	3	C58,C67,C68
3	3		1000024-00	470.0 MMF 100V 5%200PPM DM15S (10-00	6	C56,C57,C65,C66,C71,C116
4	4		1000055-00	2200. MMF 250V 20% Y5S DISC \$	2	C69,C115
5	5		1001476-00	10 MFD 35V10% 150D S.TA (10-00	1	C60
6	6		1001610-01	.01 MFD 100V OR 50V Z5U DISC/800PF MIN	93	C1-C43,C45-C54,C63,C64,
					CONT	C73-C110
7	7		1004812-00	15 MFD 20V 10% 150D S.TA (10-00	1	C59
8	8		1005306-00	6.8MFD 35V 10% 150D S.TA (10-00	6	C72,C111-C114,C61
9	9		1009964-00	.68 MFD 35V 10% 150D S.TA \$	2	C44,C55
10	10		1000021-00	220.0 MMF 100V 5%200PPM DM15S (10-00	3	C62,C70,C117
11	11		1100114-00	D 664 QS\75PCB PIV= 25V SP	4	D1-D4
12	12		1300202-00	47 1/4W 5% CC (13-00	6	R3,R4,R7,R11,R21,R63
13	13		1300250-00	150 1/4W 5% CC (13-00	5	R10,R17,R18,R52,R1
14	14		1300271-00	220 1/4W 5% CC (13-00	1	R62
15	15		1300309-00	390 1/4W 5% CC (13-00	12	R40-R48,R60,R54,R61
16	16		1300316-00	470 1/4W 5% CC (13-00	20	R26-R31,R33-R39,R49-R51,R53,
					CONT	R56,R55,R9
17	17		1300365-00	1 K 1/4W 5% CC (13-00	5	R12,R32,R20,R59,R58
18	18		1300479-00	10 K 1/4W 5% CC (13-00	1	R24
19	19		1302394-00	30 K 1/4W 5% CC (13-00	5	R8,R19,R23,R25,R5
20	20		1311422-00	178 1/4W 1% RN55D-F 100PPM (13-00	5	R13-R16,R22
21	21		1301401-00	750 1/4W 5% CC (13-00	1	R6
22	22		1213506-00	HEADER 24POS RT ANGLE W/3 SIDED HOOD	2	J1,J2
23	23		1905547-00	DEC 7474 FF-D DUAL,EDGE TRIGGER,15MHZ	5	E5,E12,E31,E32,E34
24	24		1905575-00	7400 NAND GATE-QUAD 2IN	5	E3,E15,E18,E28,E86
25	25		1905587-00	DEC 7473 FF-JK DUAL,MASTER SLAVE,10MHZ	2	E24,E45
26	26		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	3	E22,E23,E43
27	27		1909705-00	DEC 8881-INAND GATE-QUAD 2IN,OPN COLL.	2	E8,E77
28	28		1909713-00	DEC 8815 NOR GATE-DUAL 4IN 14	2	E4,E30

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK	ECO NO	REV								
PG	00005	D	00		MADE BY: R.BARILONE		DATE: 24-MAR-78		TITLE	
									PARTS LIST	
					CHECKED: L.GIAMMARINO		DATE: 24-MAR-78		KD11E-A CONTROL	
					DSN.ENG.: M.SULLIVAN		DATE: 24-MAR-78			
					PROD.: B.KING		DATE: 24-MAR-78		SIZE	CODE
									K	PL
					RESP.ENG.: M.SULLAVAN		DATE: 24-MAR-78		DOCUMENT NUMBER	
									M8266-0-DBP	
									ASSY.NO.: D-UA-M8266-0-0	
									EDIT#	
									5	

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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
29	29		1910533-00	74S03 NAND GATE-QUAD 2IN,OPN COLLECT	5	E41,E64,E65,E76,E94
30	30		1909930-00	7405 INVERTER GATE-HEX 1IN,OPEN COL	2	E91,E101
31	31		1910018-00	DEC 74193 COUNTER,SYNCHR. UP/DOWN	2	E78,E79
32	32		1911675-00	74S138 DECODER-THREE INPUT	1	E89
33	33		1910091-00	DEC 7437 NAND GATE-QUAD 2IN,BUFFER 14	1	E81
34	34		1910155-00	DEC 7408 AND GATE,POS,QUAD 2IN 14	2	E11,E50
35	35		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIGGERABLE	3	E16,E7,E14
36	36		1910532-00	74S00 NAND GATE-QUAD 2IN	6	E25,E37,E47,E84,E6,E35
37	37		1910534-00	74S04 INVERTER GATE-HEX 1IN	2	E111,E112
38	38		1910539-00	74S20 NAND GATE-DUAL 4INPUT	2	E57,E58
39	39		1910547-00	74S153 MUX 1 OF 4 (DUAL)	2	E46,E36
40	40		1910548-00	74S157 MUX 1 OF 2 (QUAD)	2	E10,E39
41	41		1910550-00	74S174 FF-D HEX	10	E19,E38,E66,E93,E71,E88,E90,
					CONT	E92,E96,E56
42	42		1910651-00	***** THIS ITEM IS NOT USED *****	0	
43	43		1910878-00	7427 NOR GATE-TRIPLE 3IN	1	E75
44	44		1910957-00	74S175 FF-D QUAD COMMON CLOCK	1	E48,E55,E67,E13
45	45		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UNIBUS	2	E1,E17
46	46		1911324-00	7414 NAND GATE-HEX 1IN SCHMITT TRIG	1	E21
47	47		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,UNIBUS,Q-BU	1	E9
48	48		1911579-00	8641 TRANSCEIVER,BUS,QUAD,UNIBUS	1	E27
49	49		1911637-00	74132 NAND GATE-QUAD 2 IN SCHMITT TR	2	E2,E42
50	50		1912388-00	74S02 NOR GATE-QUAD 2IN,POS	3	E20,E73,E95
51	51		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1	E26
52	52		1910544-00	74S74 FF-D DUAL,EDGE TRIGGER	2	E33,E49
53	53		1910536-00	74S10 NAND GATE-TRIPLE 3IN	2	E40,E85
54	54		1913340-00	74S32 OR GATE QUAD 2IN	1	E44
55	55		23106A1-00	A1-07 PROM,	1	E51
56	56		23160A2-00	A2-05 \$	1	E29
57	57		23175A2-00	A2-02,A2-03,A2-04 \$	1	E53
58	58		23162A2-00	A2-05	1	E54
59	59		23174A2-00	A2-02,A2-03,A2-04	1	E59
60	60		23173A2-00	A2-02,A2-03,A2-04	1	E60
61	61		23161A2-00	A2-05	1	E61
62	62		23170A2-00	A2-02,A2-03,A2-04	1	E62
63	63		23176A2-00	A2-02,A2-03,A2-04	1	E63
64	64		23014A9-00	A9-01	1	E68
65	65		23172A2-00	A2-02,A2-03,A2-04	1	E69
66	66		23349A9-00	A9-04	1	E70
67	67		23A22A2-00	A2-02,A2-03	1	E72
68	68		23110A1-00	A1-03,A1-05 PROM,	1	E74
69	69		23163A2-00	A2-05 \$	1	E80
70	70		23108A1-00	A1-07 PROM,	1	E82
71	71		23107A1-00	A1-07 PROM,	1	E83
72	72		23109A1-00	A1-07 PROM,	1	E87
73	73		23022F1-00	F1-01 \$	1	E97
74	74		23023F1-00	F1-01 \$	1	E98
75	75		23021F1-00	F1-01 \$	1	E99

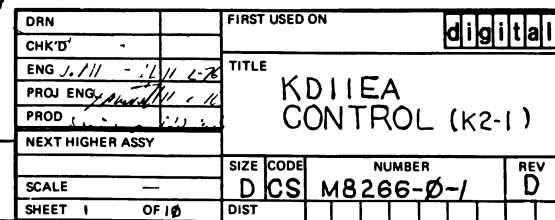
! DIGITAL EQUIPMENT CORPORATION !	! TITLE !	! PARTS LIST !	! SIZE !	! CODE !	! DOCUMENT NUMBER !	! REV !
! MAYNARD, MASSACHUSETTS !	! !	! KD11E-A CONTROL !	! !	! !	! M8266-0-DBP !	! D !

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
76	76		23024F1-00	F1-01	\$ 1	E100
77	77		23011F1-00	F1-01	\$ 1	E103
78	78		23025F1-00	F1-01	\$ 1	E104
79	79		23027F1-00	F1-01	\$ 1	E105
80	80		23020F1-00	F1-01	\$ 1	E106
81	81		23019F1-00	F1-01	\$ 1	E107
82	82		23018F1-00	F1-01	\$ 1	E108
83	83		23017F1-00	F1-01	\$ 1	E109
84	84		23016F1-00	F1-01	\$ 1	E110
85	85		23177A1-00	A1-07 PROM,	1	E102
86	86		23013F1-00	F1-01	\$ 1	E52
87	87		9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	1	W1
88	88		9006732-00	EYELET, ROLLED FLANGE, .121 OD X .219 LG	12	
89	89		7417214-00	MODULE HANDLE REWORK	1	
90	90		1303114-00	1.0 K 1/4W 1% RN55D-F 100PPM (13-00	1	R2
91	91		9105740-55	WIRE(WRAP)30AWG UL1423 (91-00	A/R	
92	92		9009157-00	ADHESIVE, PERMABOND #101 \$	A/R	

93 NOTE: 1001610-01 MAY BE SUBSTITUED BY 1001610-00.

DIGITAL EQUIPMENT CORPORATION	TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
MAYNARD, MASSACHUSETTS		KD11E-A CONTROL	K	PL	M8266-0-DBP	D

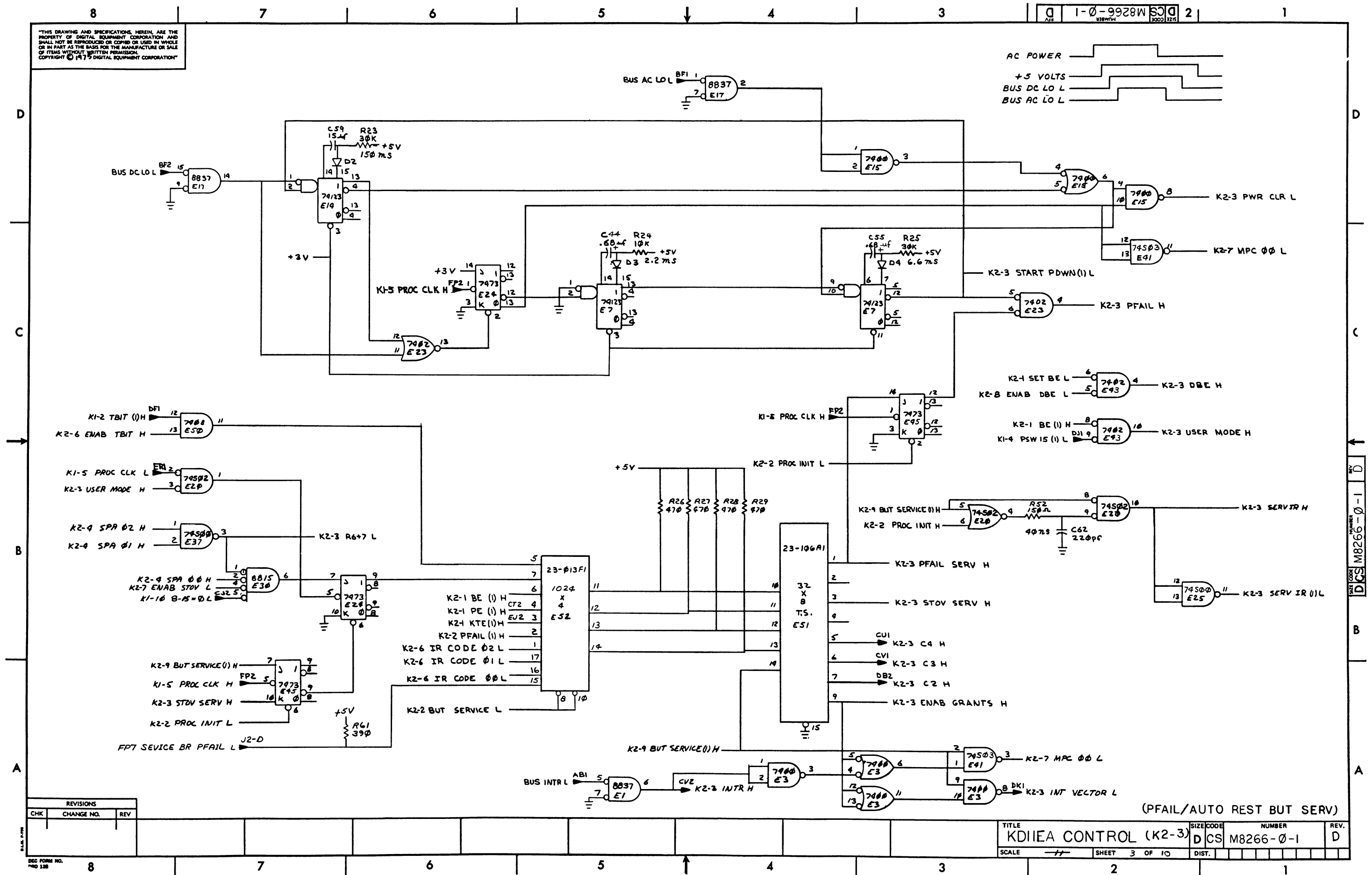
2	SIZE	CS	CS	8266	-0-	1	D
	CODE				NUMBER		KEY



REVISIONS			
CHK	CHANGE NO	REV	
Q/D	M8266-00001	A	
<i>A</i> <i>3 MAR 77</i> <i>R BARRY</i> <i>Richard Barry 9-MAR-77</i>			
ED	M8266-00002	B	
<i>E. E. Williams</i> <i>11</i> <i>R BARRY</i> <i>Richard Barry 7-MAY-77</i>			
NA	M8266-00003	C	
<i>Barry Cramm</i> <i>23 APR 77</i> <i>B. CRAMM</i> <i>B Cramm</i>			
PL	M8266-00005	D	
<i>P. Sullivan</i> <i>3 MAR 78</i> <i>M. SULLIVAN</i> <i>M Sullivan - 13 APR 78</i>			

B

DEC FORM NO.
DND 138



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REV 0 1-0-9928W M8266-0-1

D

D

USER MODE SELECTS R16
KERNAL MODE SELECTS R6

C

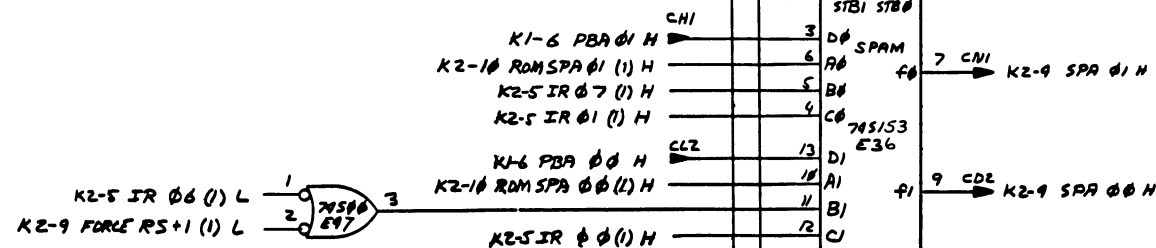
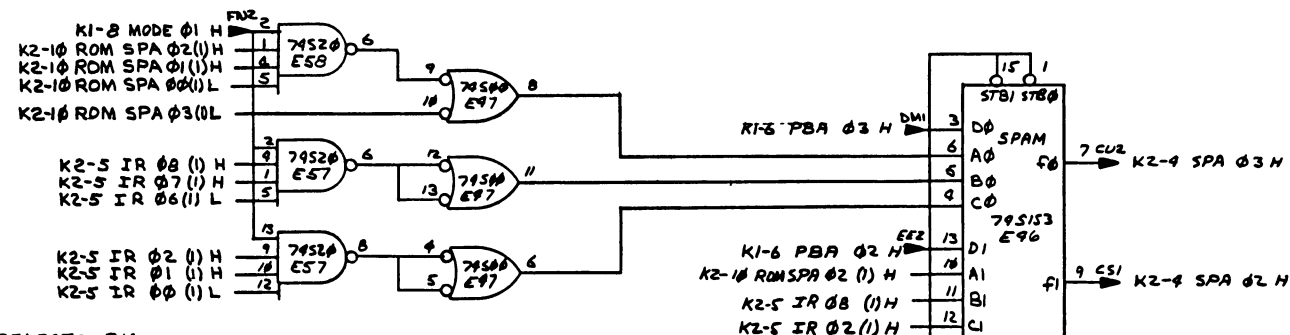
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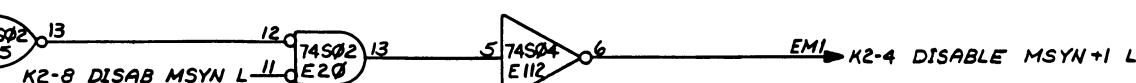
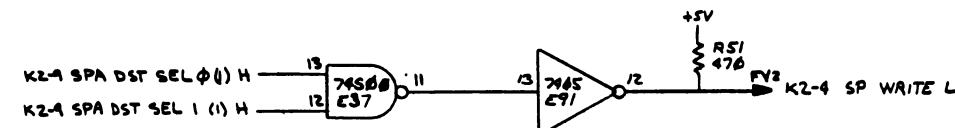
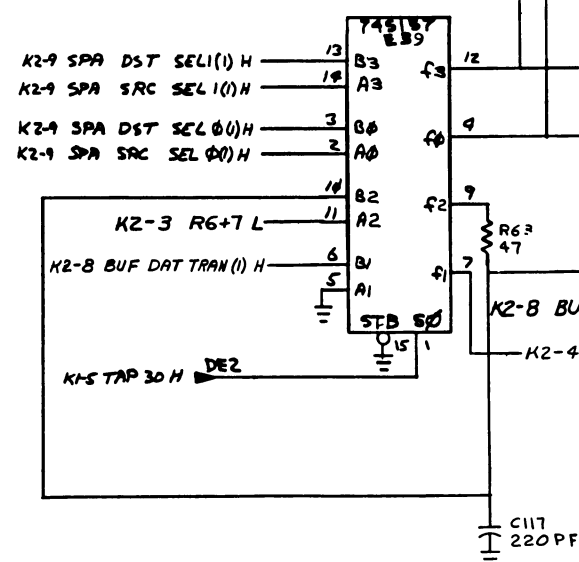
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S1	S0	F
L	L	ROM
L	H	R5
H	L	RD
H	H	BA



(SPA MUX)

REVISIONS		
CHK	CHANGE NO.	REV

DEC FORM NO. 740 138

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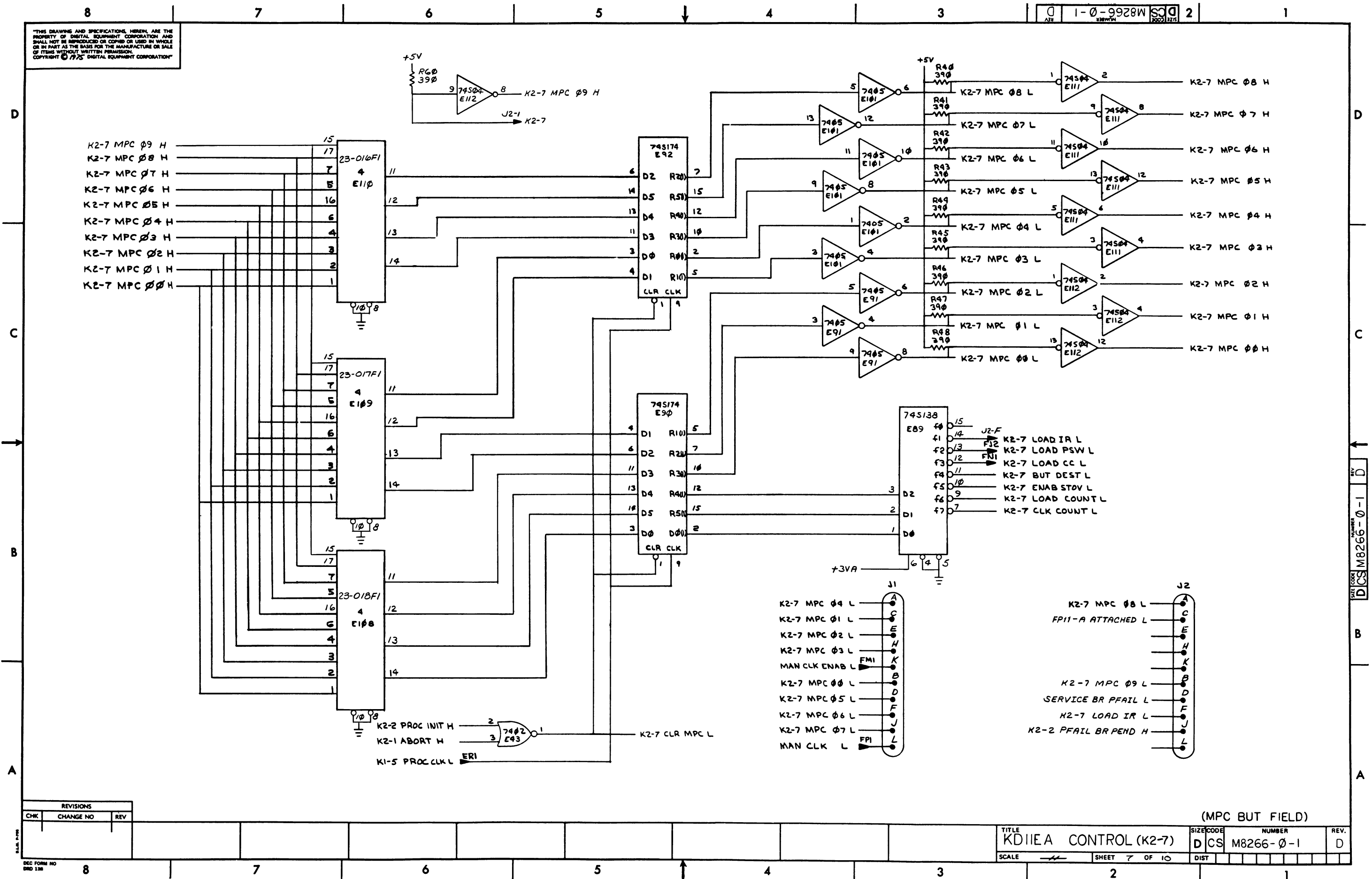
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SCALE	—H—	SHEET	4 OF 10	DIST.

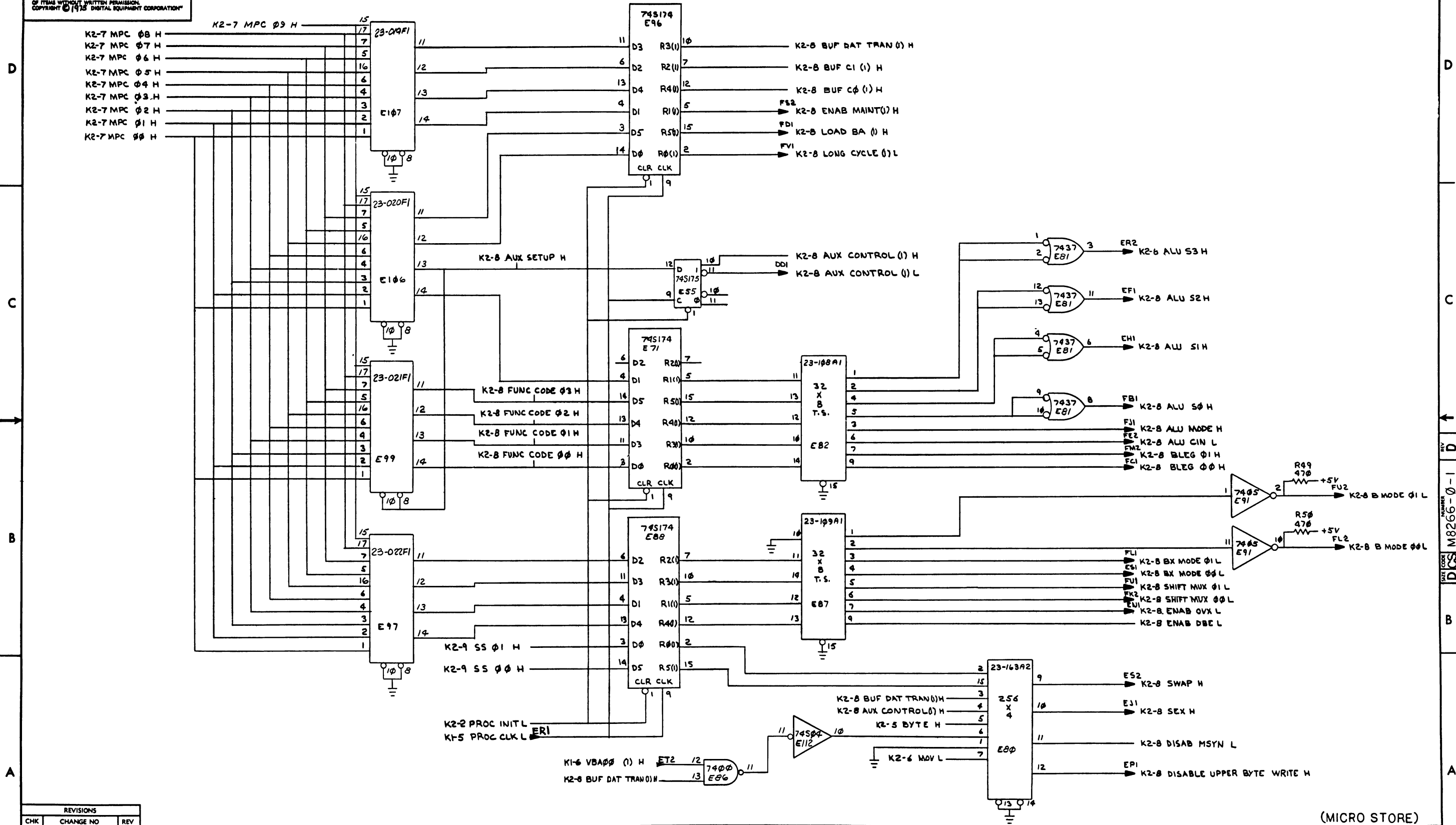
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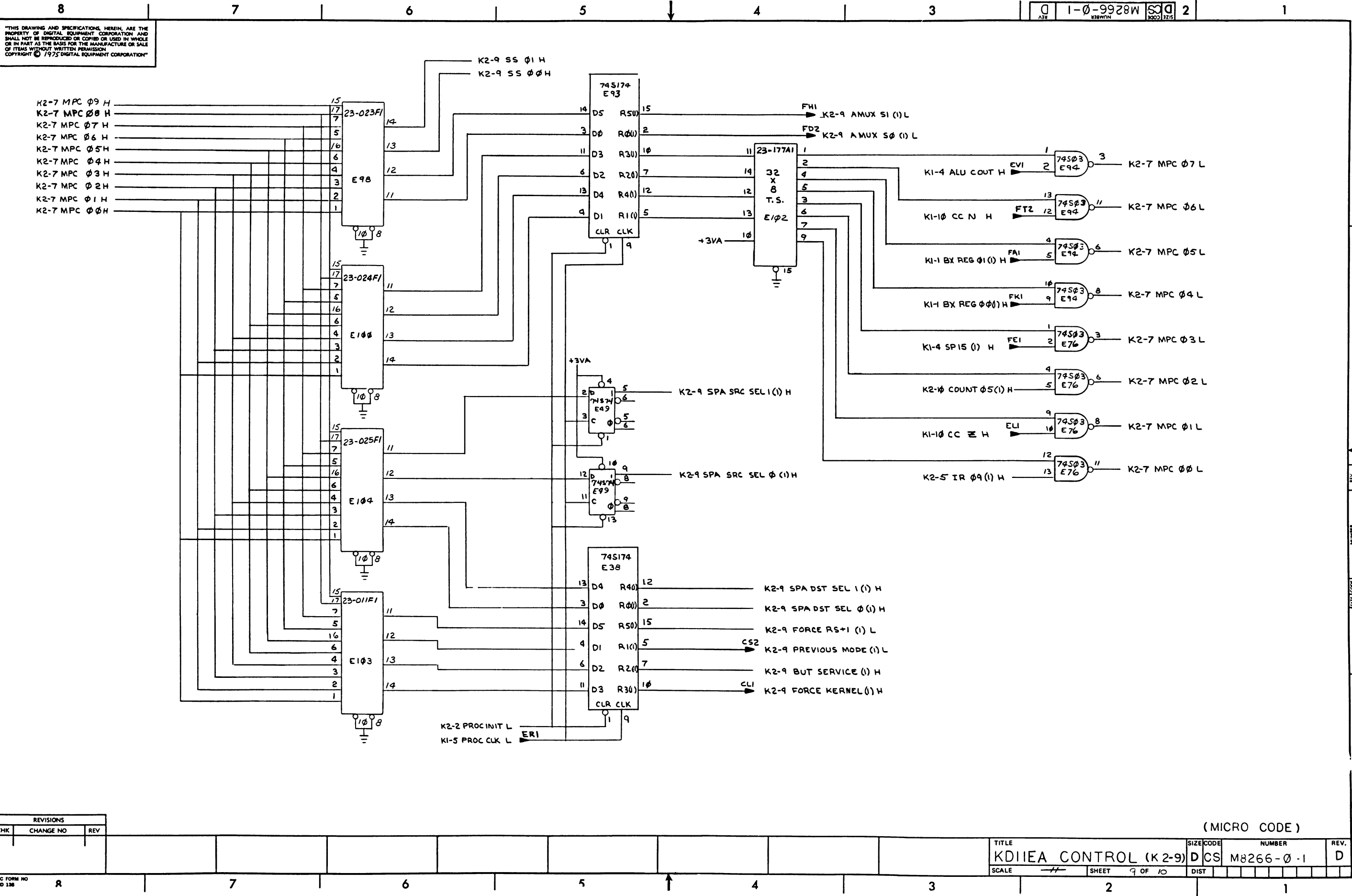
TITLE KDIIFA CONTROL (K2-6)		SIZE CODE D CS	NUMBER M8266-Ø-1				REV. D
SCALE //	SHEET 6	OF 10	DIST.				



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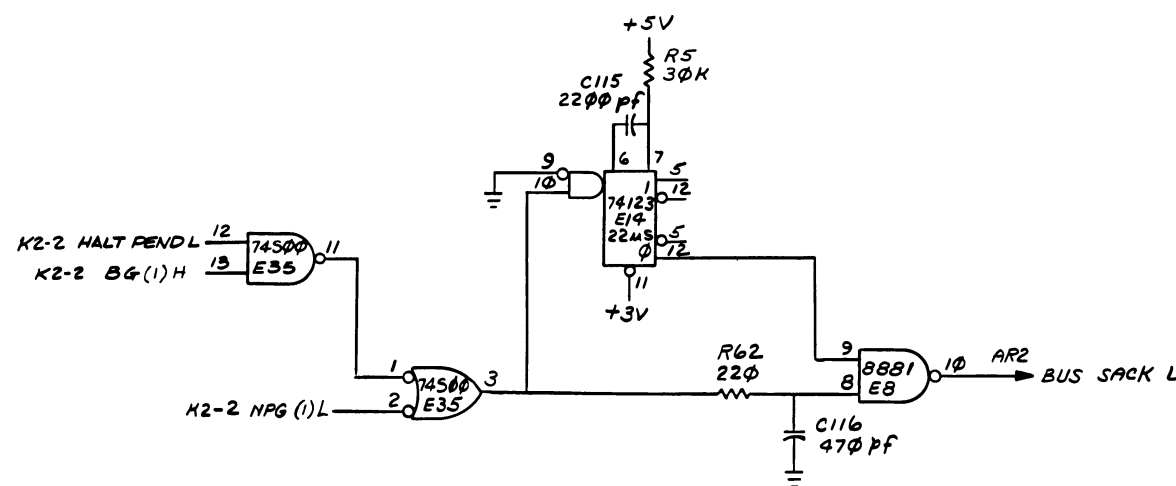
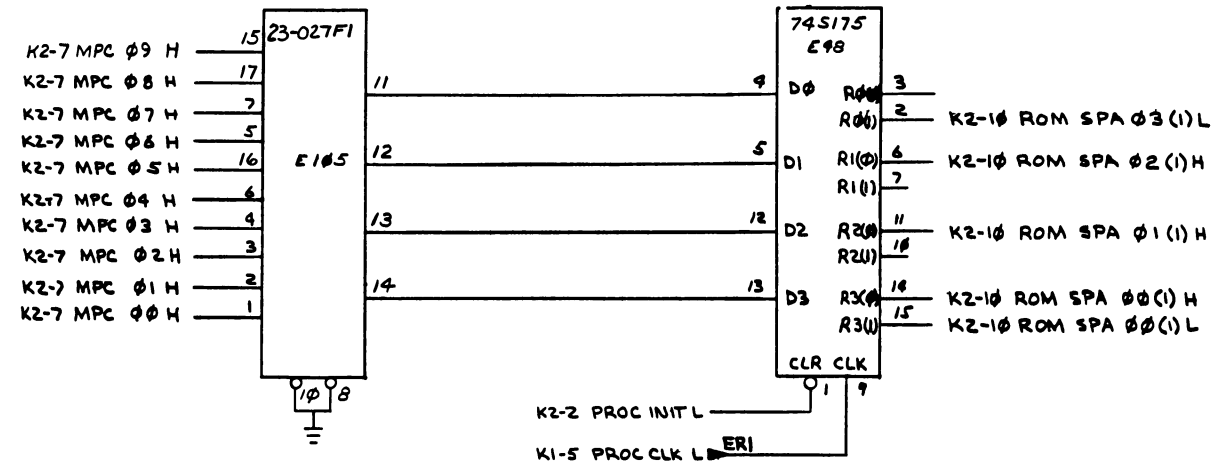
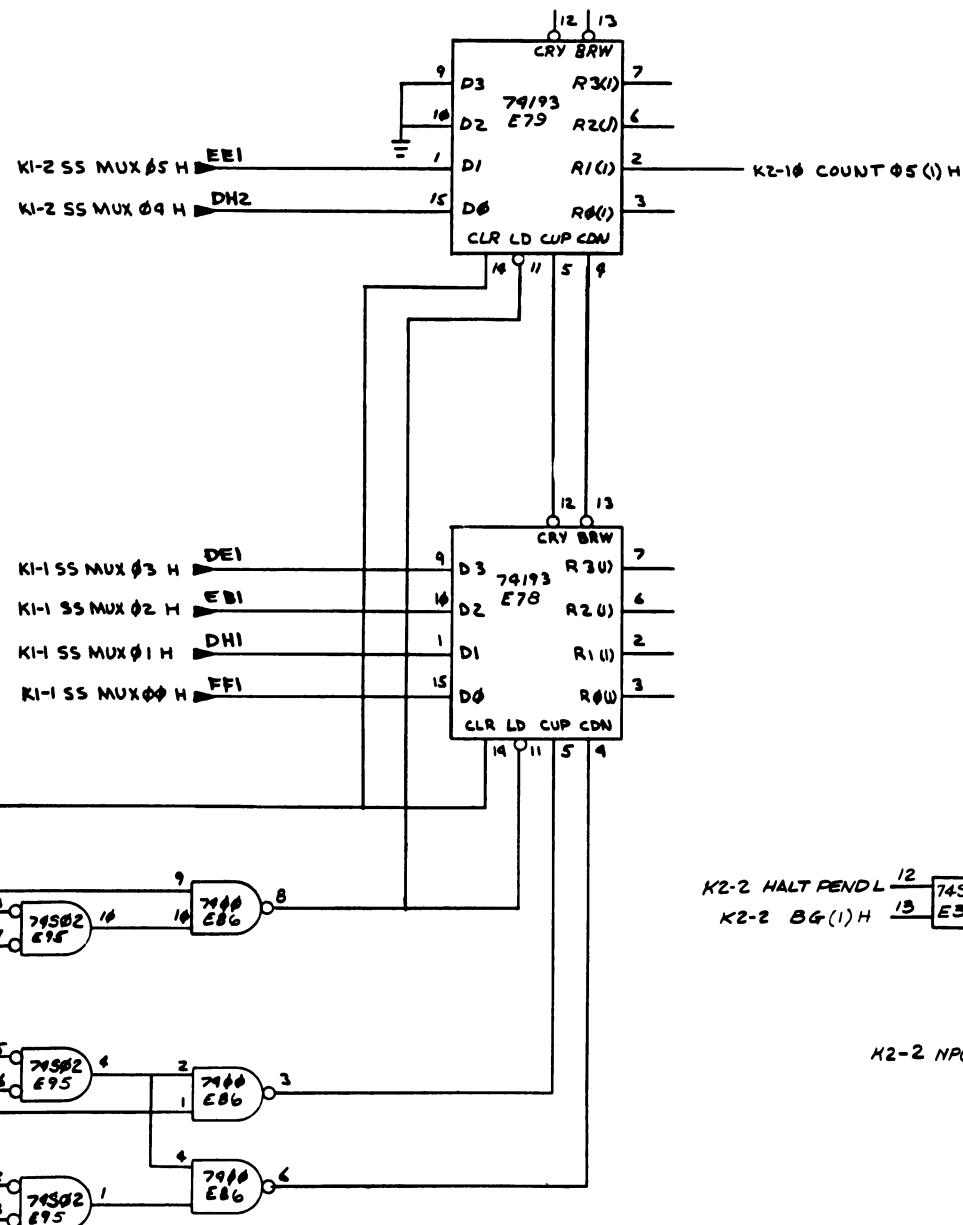


REVISIONS		
CHK	CHANGE NO	REV



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1-0-9928W SCS 2



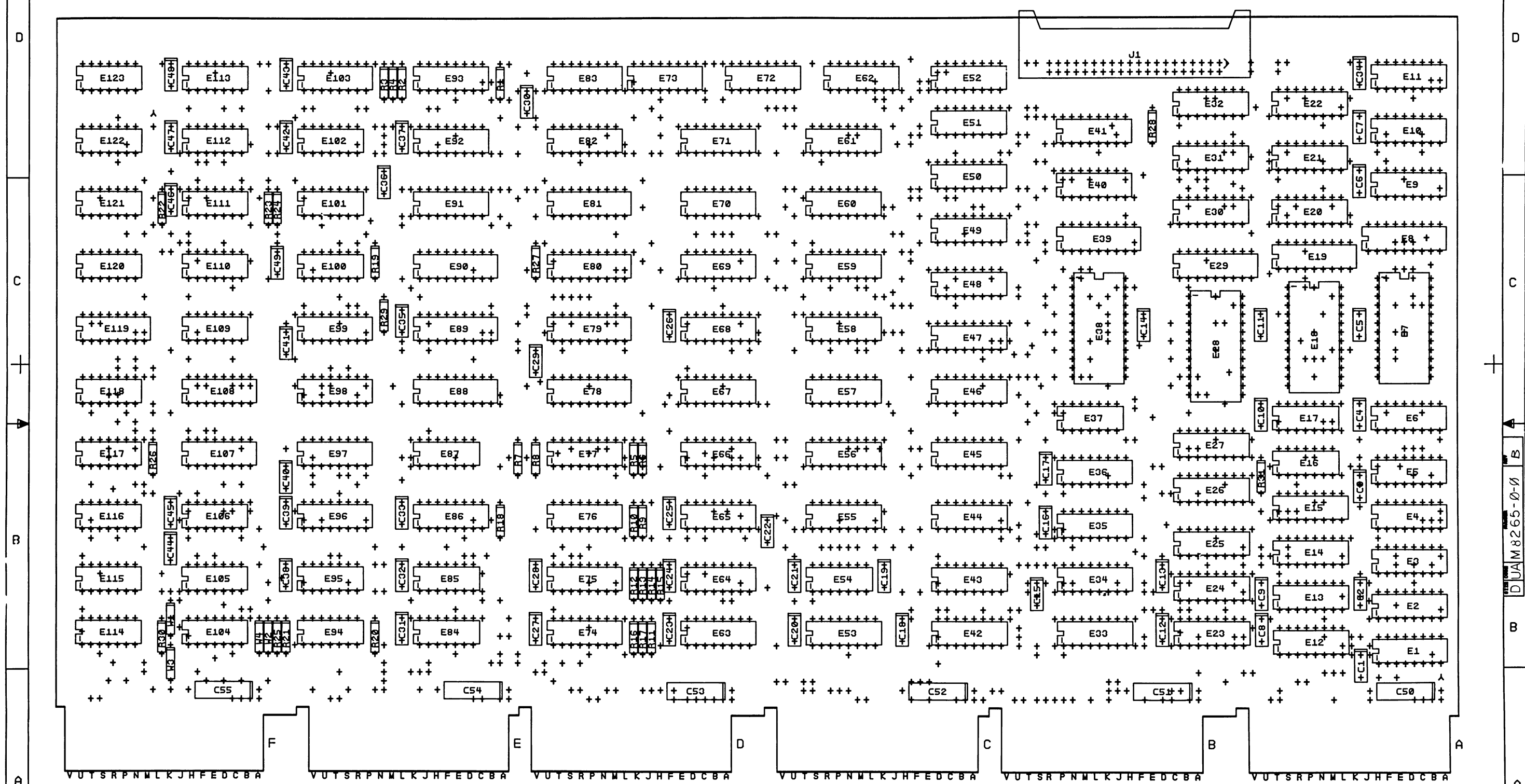
REVISIONS		
CHK	CHANGE NO	REV

(ROM SPA COUNTER)

TITLE		SIZE CODE	NUMBER	REV.
KDI-FA CONTROL (K2-10)		D CS	M8266-0-1	D
SCALE	SHEET	OF	OF	DIST.

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COMPONENT SIDE VIEW



NOTES:

1. CHANGE NO. REV. 1-77

2. 00002 B

CHANGE NO.	REV.
00002	B

ETCH REV. B-PI
P.C. DESIGN DATA BASE REV.

SIGNATURES	DATE
DRN. D. BILODEAU	9-8-76
CHK'D. X. S. +	4-11-77
ENG. M. S. +	7-11-77
PROJ. ENG. M. S. +	7-11-77
PROD. R. B. +	10-1-77
SCALE 2/1	
SHT. 1 OF 3	
NEXT HIGHER ASSY. B DD M8265-0-0	

TITLE	KDII-EA
	DATA PATH
SIZE	CODE
D	UA
NUMBER	M8265-0-0
REV	B

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2 DUA M8265-0-0 B

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LAYER 1

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E123

E93

EB3

E72

E62

E52

SIDE 1

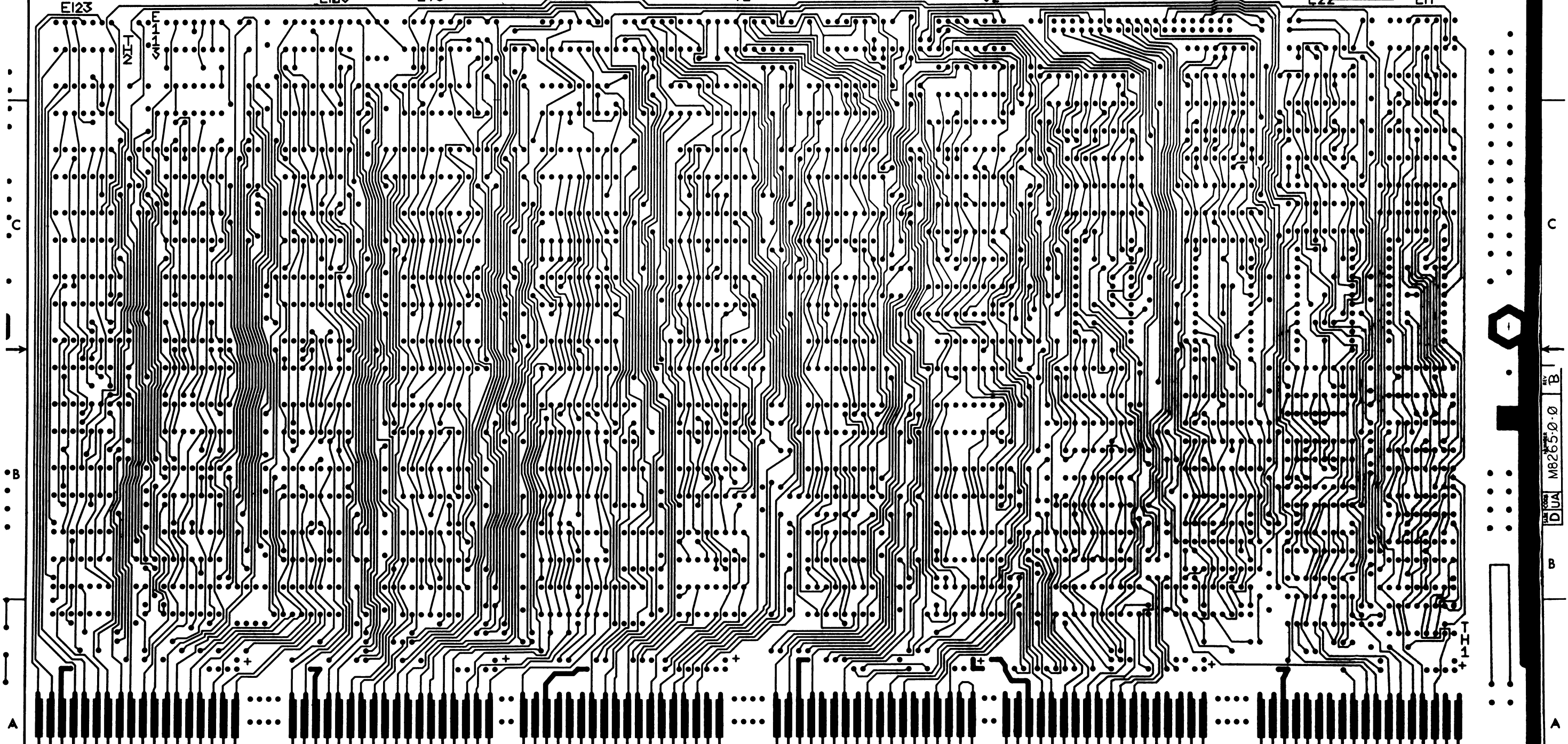
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digital

E11

E123

E11
E12



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A

REVISIONS		
CHK	CHANGE NO	REV

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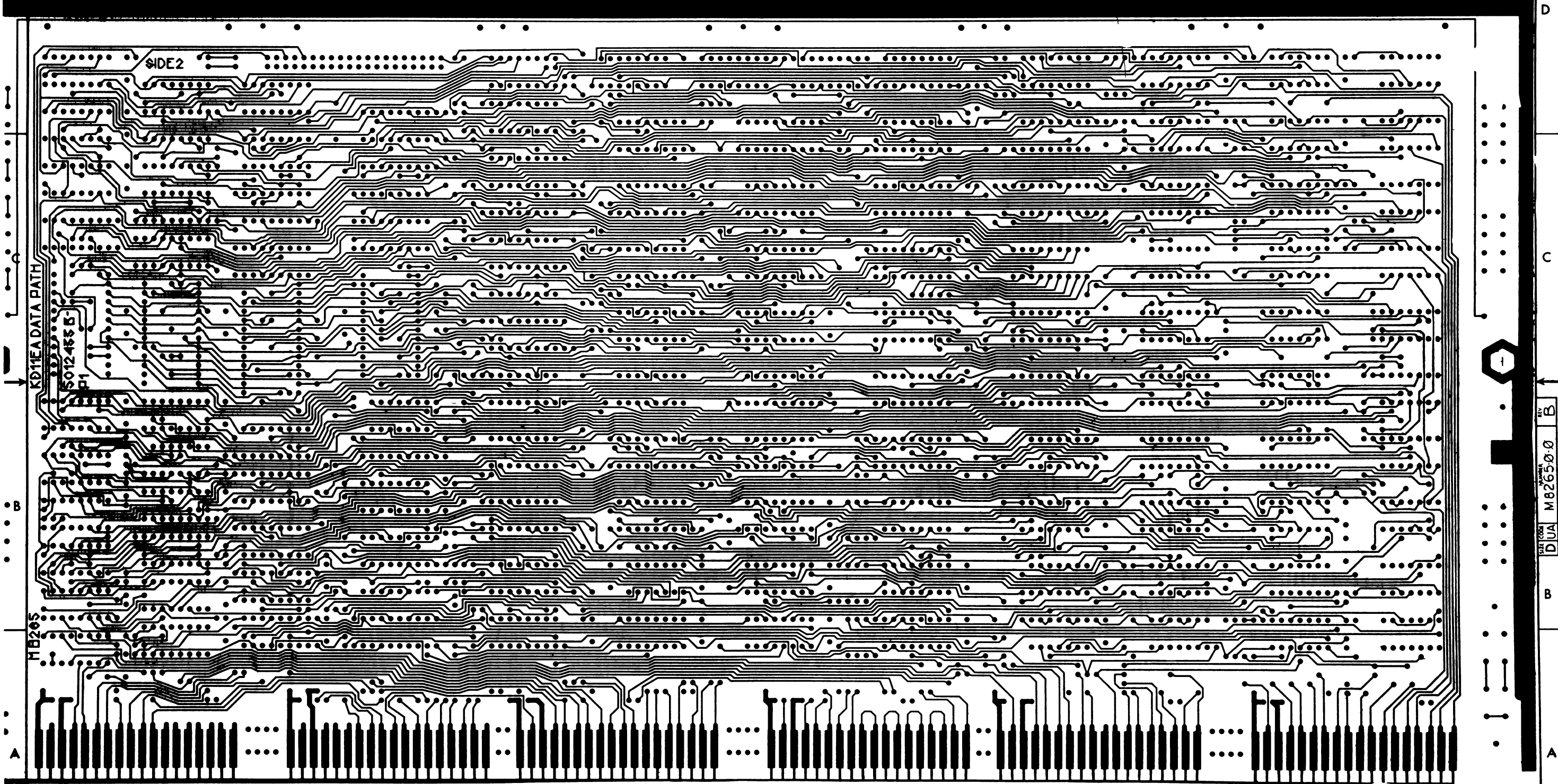
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1

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834AJ

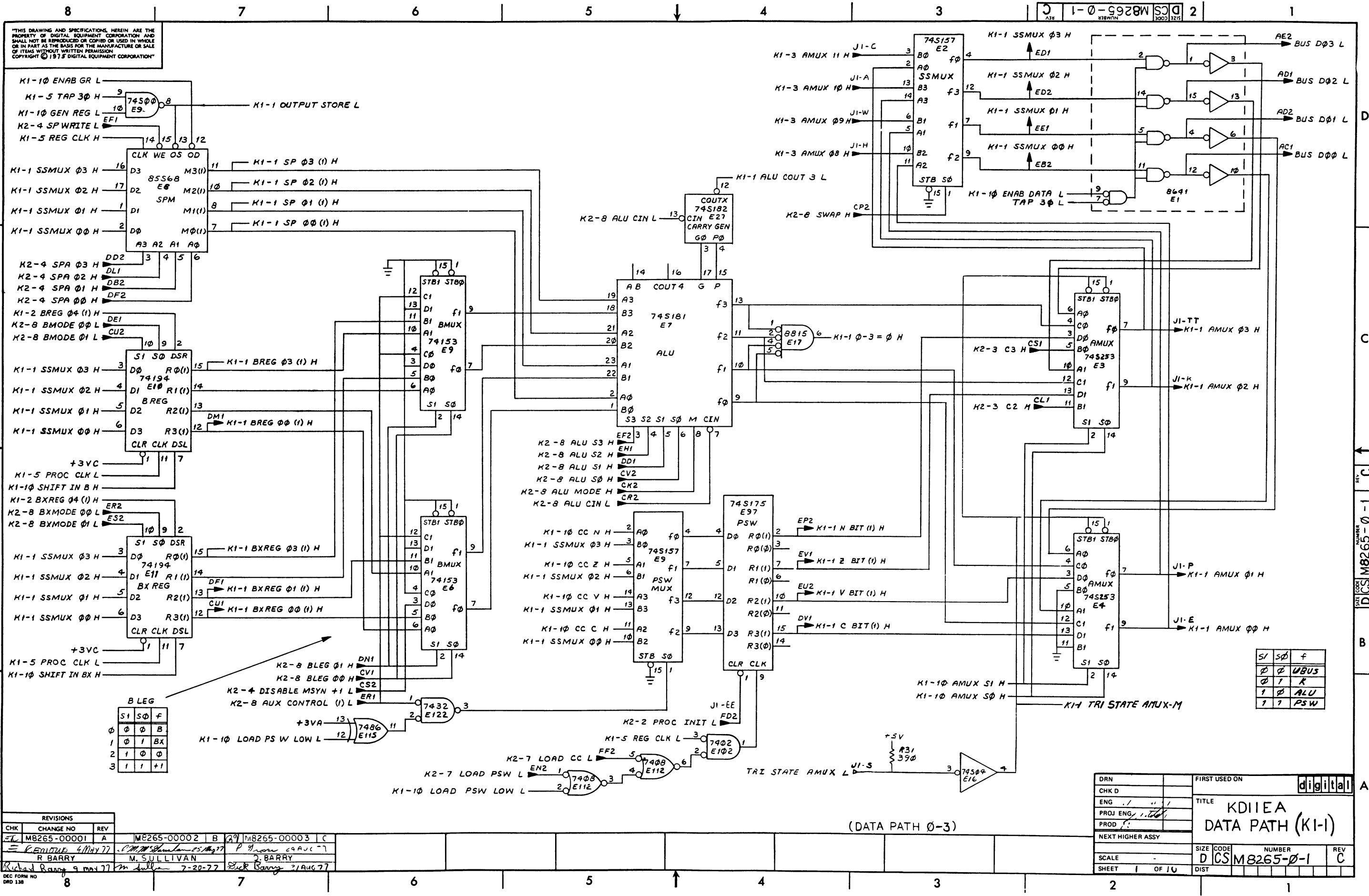
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REVISIONS		
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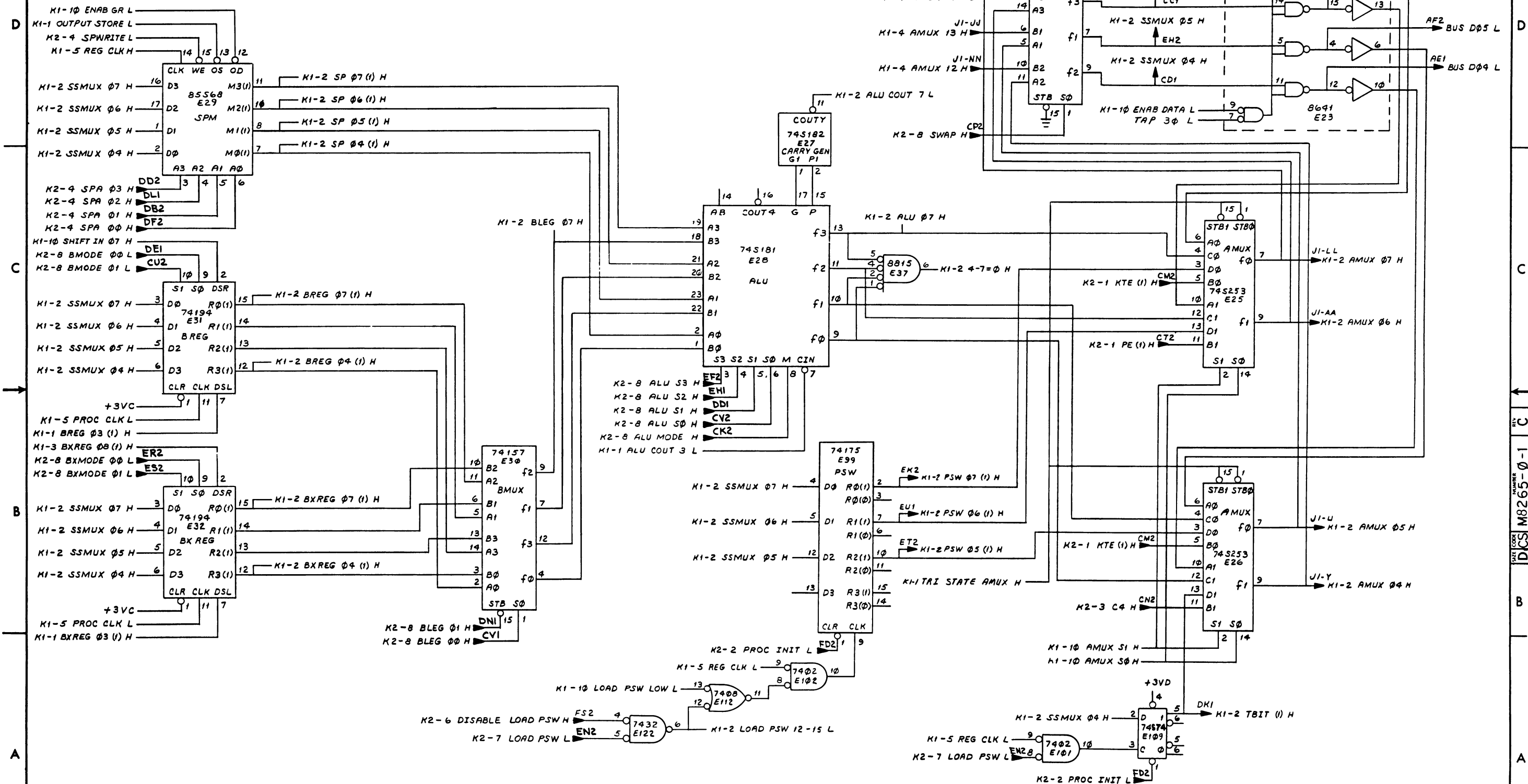
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SCALE 2/1		SHEET 3 OF 3		DIST						

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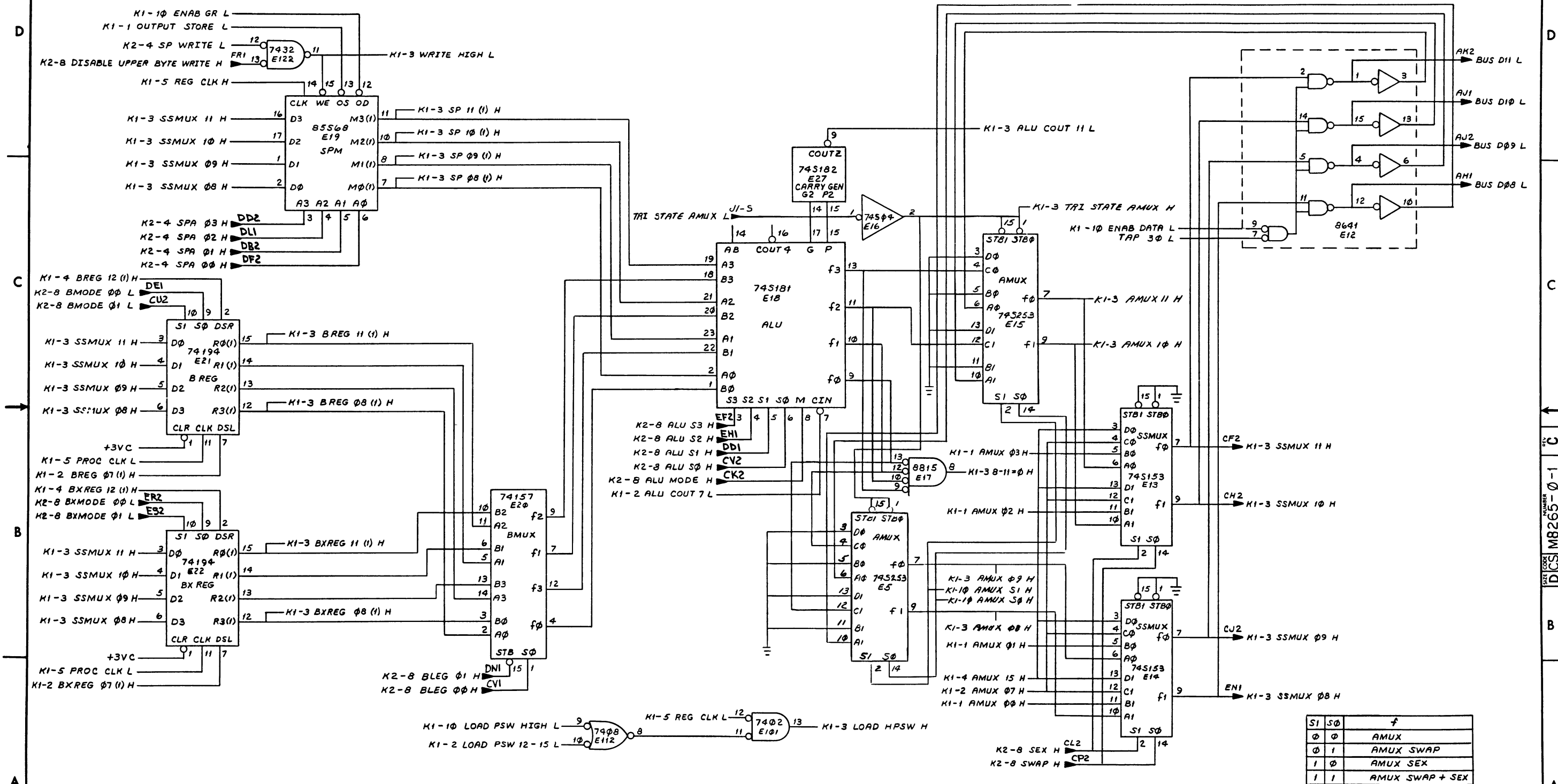
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FL	M8265-00260	IZ	
FL	M8265-00261	JA	
FL	M8265-00262	JB	
FL	M8265-00263	JC	
FL	M8265-00264	JD	
FL	M8265-00265	JE	
FL	M8265-00266	JF	
FL	M8265-00267	JG	
FL	M8265-00268	JH	
FL	M8265-00269	JI	
FL	M8265-00270	JJ	
FL	M8265-00271	JK	
FL	M8265-00272	JL	
FL	M8265-00273	JM	
FL	M8265-00274	JN	
FL	M8265-00275	JO	
FL	M8265-00276	JP	
FL	M8265-00277	JQ	
FL	M8265-00278	JR	
FL	M8265-00279	JS	
FL	M8265-00280	JT	
FL	M8265-00281	JU	
FL	M8265-00282	JV	
FL	M8265-00283	JW	
FL	M8265-00284	JX	
FL	M8265-00285	JY	
FL	M8265-00286	JZ	
FL	M8265-00287	KA	
FL	M8265-00288	KB	
FL	M8265-00289	KC	
FL	M8265-00290	KD	
FL	M8265-00291	KE	
FL	M8265-00292	KF	
FL	M8265-00293	KG	
FL	M8265-00294	KH	
FL	M8265-00295	KI	
FL	M8265-00296	KJ	
FL	M8265-00297	KK	
FL	M8265-00298	KL	
FL	M8265-00299	KM	
FL	M8265-00300	KN	
FL	M8265-00301	KO	
FL	M8265-00302	KP	
FL	M8265-00303	KQ	
FL	M8265-00304	KR	
FL	M8265-00305	KS	
FL	M8265-00306	KT	
FL	M8265-00307	KU	
FL	M8265-00308	KV	
FL	M8265-00309	KW	
FL	M8265-00310	KX	
FL	M8265-00311	KY	
FL	M8265-00312	KZ	
FL	M8265-00313	LA	
FL	M8265-00314	LB	
FL	M8265-00315	LC	
FL	M8265-00316	LD	
FL	M8265-00317	LE	
FL	M8265-00318	LF	
FL	M8265-00319	LG	
FL	M8265-00320	LH	
FL	M8265-00321	LI	
FL	M8265-00322	LJ	
FL	M8265-00323	LK	
FL	M8265-00324	LL	
FL	M8265-00325	LM	
FL	M8265-00326	LN	
FL	M8265-00327	LO	
FL	M8265-00328	LP	
FL	M8265-00329	LQ	
FL	M8265-00330	LR	
FL	M8265-00331	LS	
FL	M8265-00332	LT	
FL	M8265-00333	LU	
FL	M8265-00334	LV	
FL	M8265-00335	LU	
FL	M8265-00336	LV	
FL	M8265-00337	LU	
FL	M8265-00338	LV	
FL	M8265-00339	LU	
FL	M8265-00340	LV	
FL	M8265-00341	LU	
FL	M8265-00342	LV	
FL	M8265-00343	LU	
FL	M8265-00344	LV	
FL	M8265-00345	LU	
FL	M8265-00346	LV	
FL	M8265-00347	LU	
FL	M8265-00348	LV	
FL	M8265-00349	LU	
FL	M8265-00350	LV	
FL	M8265-00351	LU	
FL	M8265-00352	LV	
FL	M8265-00353	LU	
FL			

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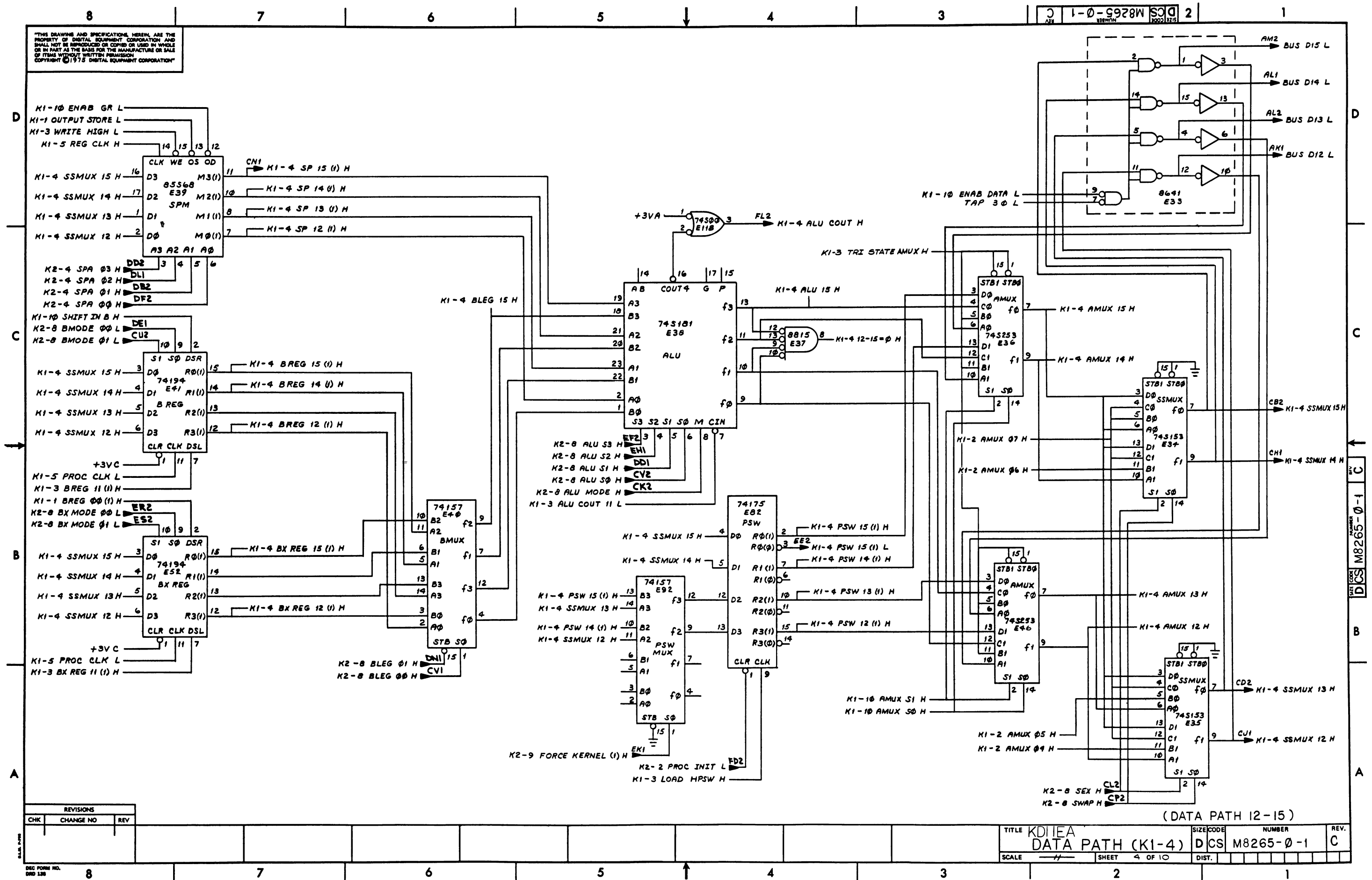
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CHK	CHANGE NO	REV

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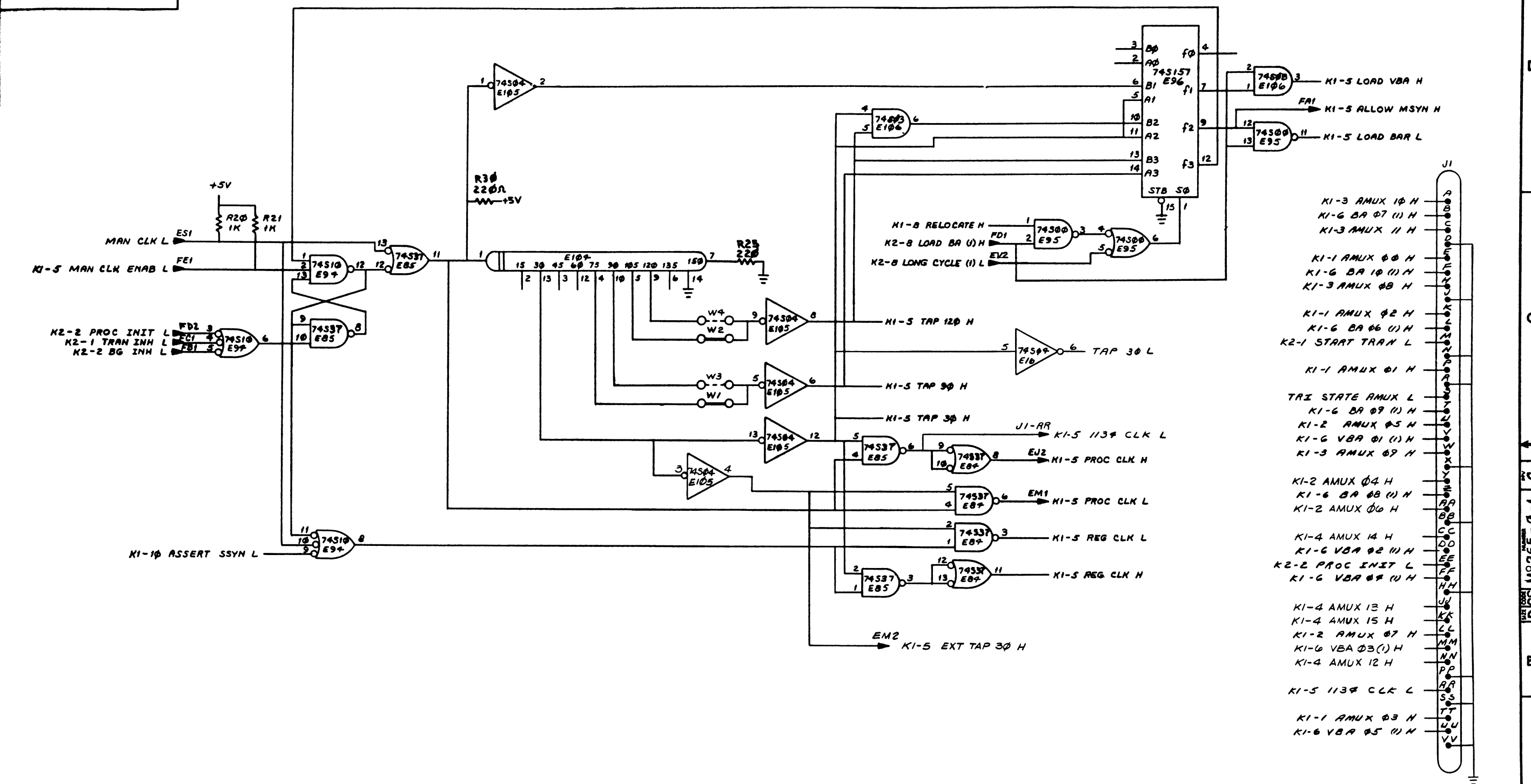


(DATA PATH 8-11)

REVISIONS		
CHK	CHANGE NO	REV



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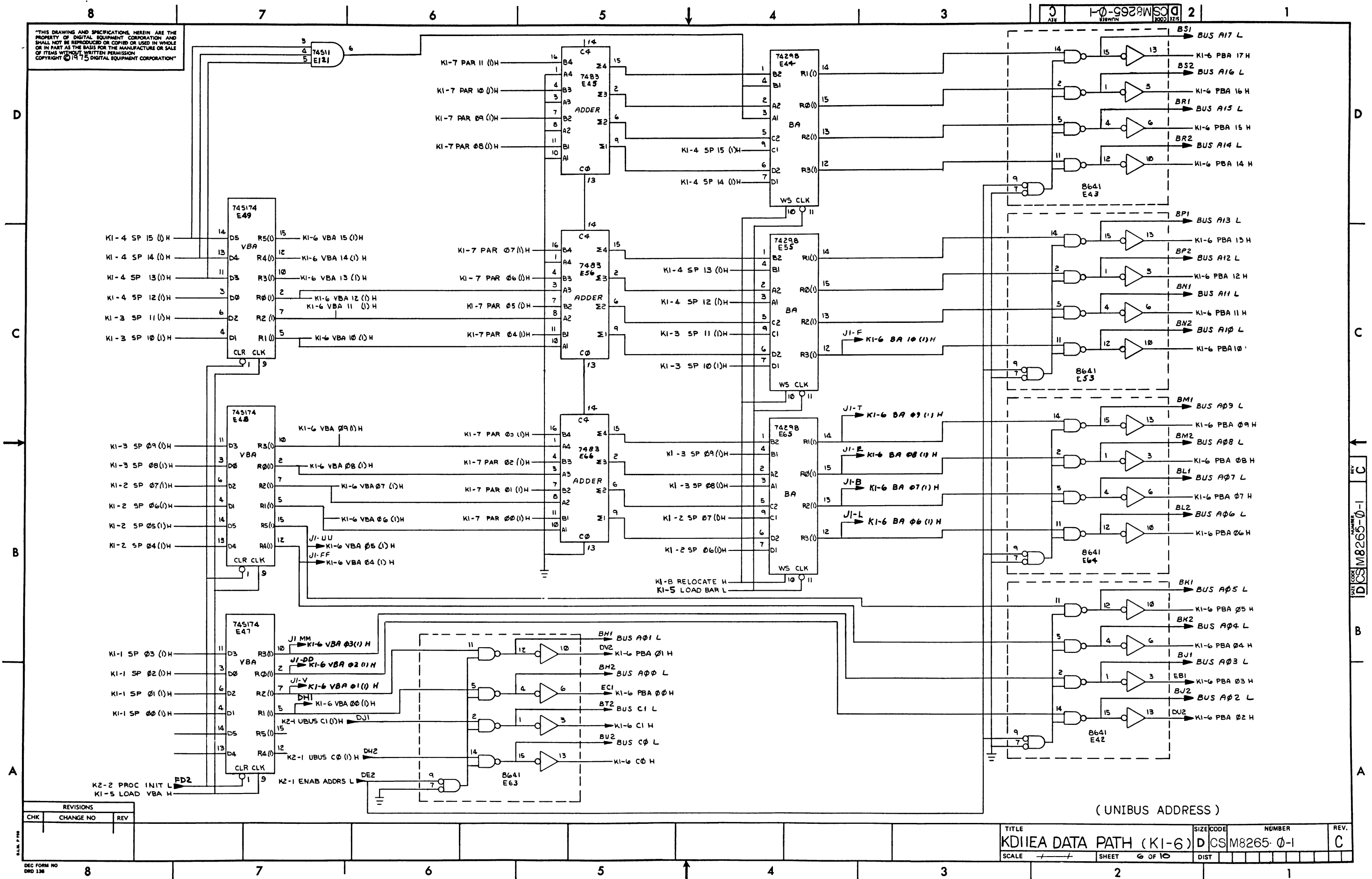


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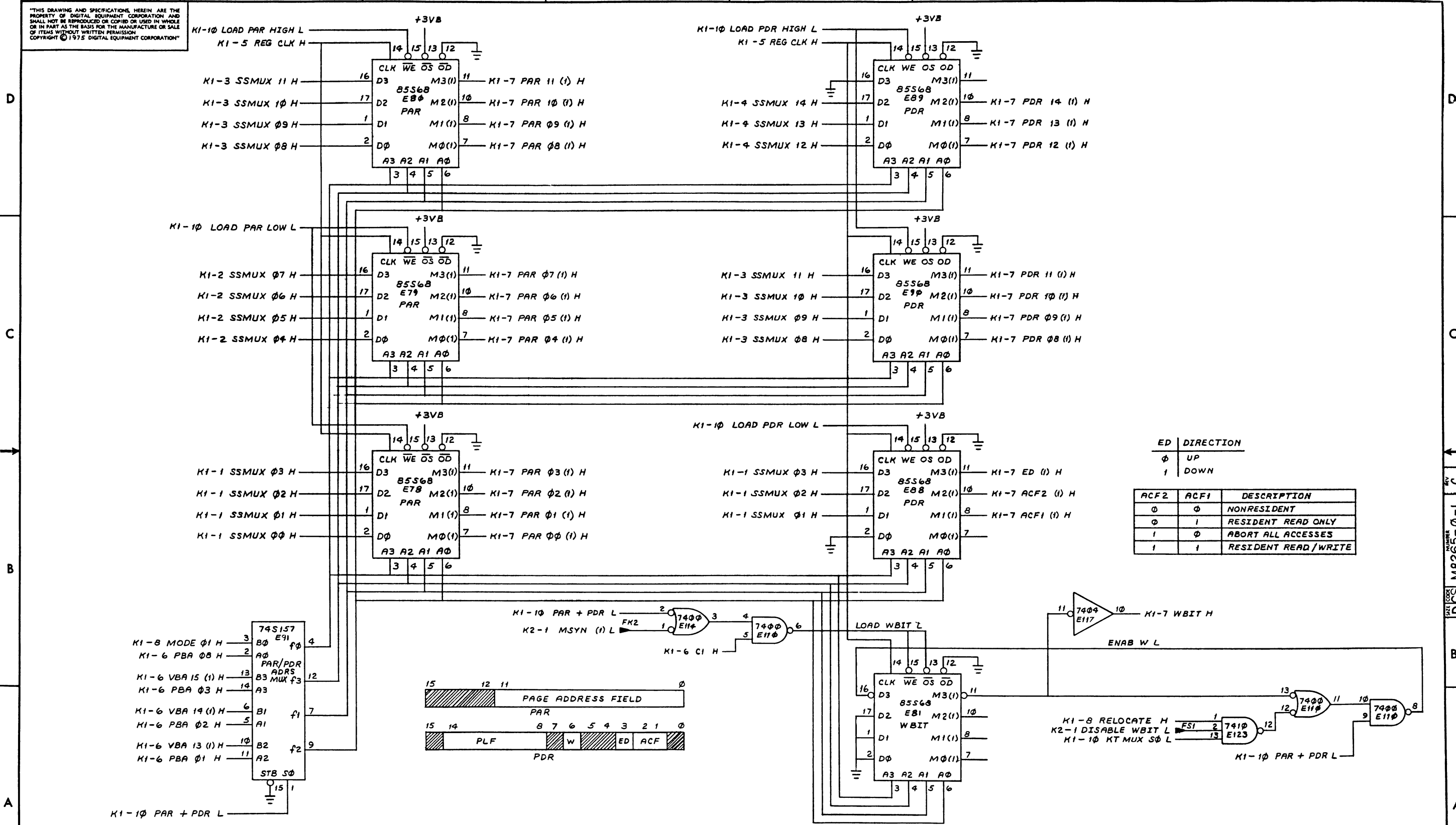
REVISIONS		
CHK	CHANGE NO	REV

8 7 6 5 4 3 2 1

TITLE		SIZE	CODE	NUMBER	REV.
KDIIEA		D	CS	M8265-0-1	C
DATA PATH (K1-5)		SCALE	SHEET	5 OF 10	



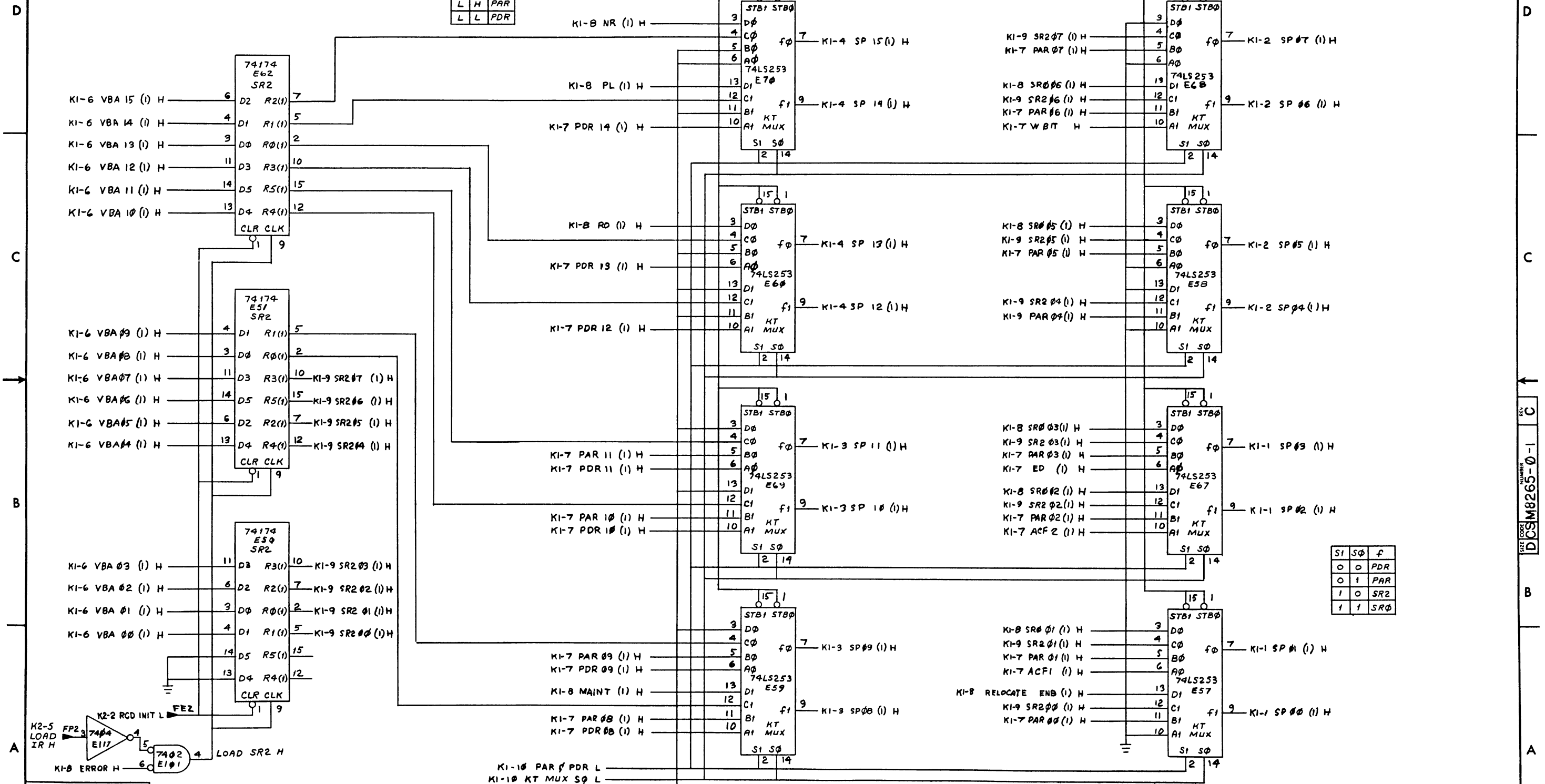
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SI	SØ	F
H	H	SRØ
H	L	SR2
L	H	PAR
L	L	PDR



SI	SØ	F
0	0	PDR
0	1	PAR
1	0	SR2
1	1	SRØ

REVISIONS		
CHK	CHANGE NO	REV

A



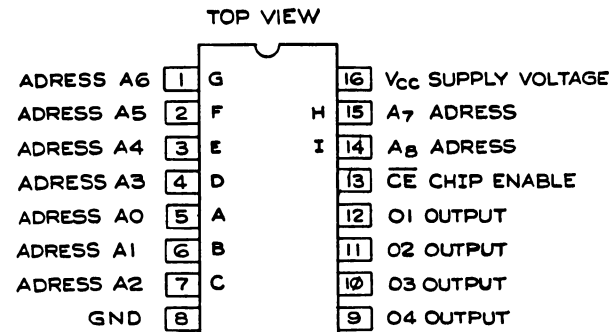
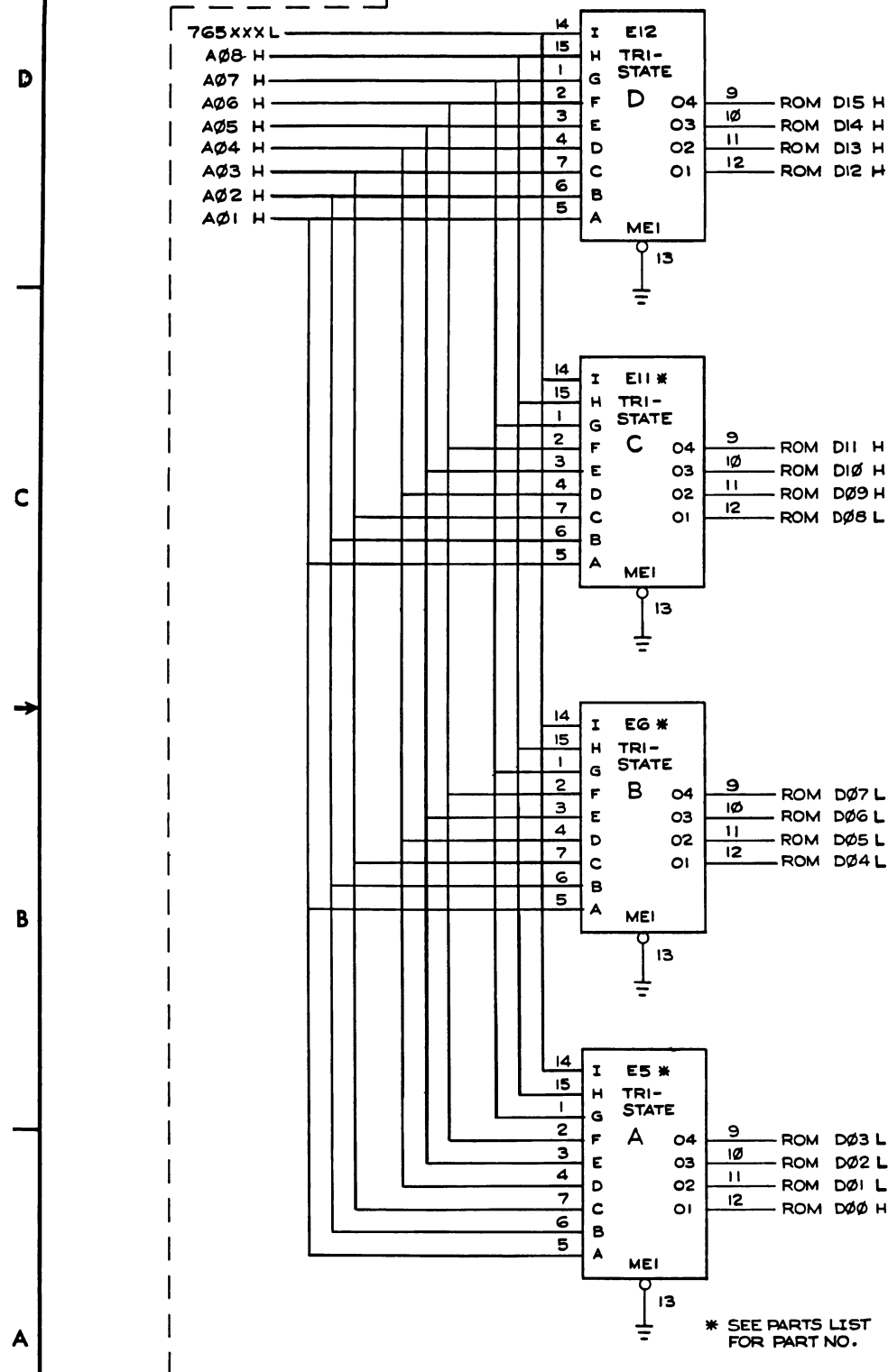
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KDII EA DATA PATH(KI-10)				D		CS		M8265-0-1				C	
SCALE 1/4				SHEET 10 OF 10		DIST							

REWORK INSTRUCTIONS
FIELD SERVICE DEPOT: REMOVE THE INNER HANDLE
LOCATED ABOVE C31 BY DRILLING OUT THE TWO
EYELETS WITH A .125 INCH DRILL.

REVISIONS		
CHK	CHANGE NO	REV

TITLE		UNIBUS TERMINATOR/BOOTSTRAP		SIZE	CODE	NUMBER		REV
				D	CS	M9301-0-1		W
SCALE	1/2	SHEET	2 OF 5	DIST				

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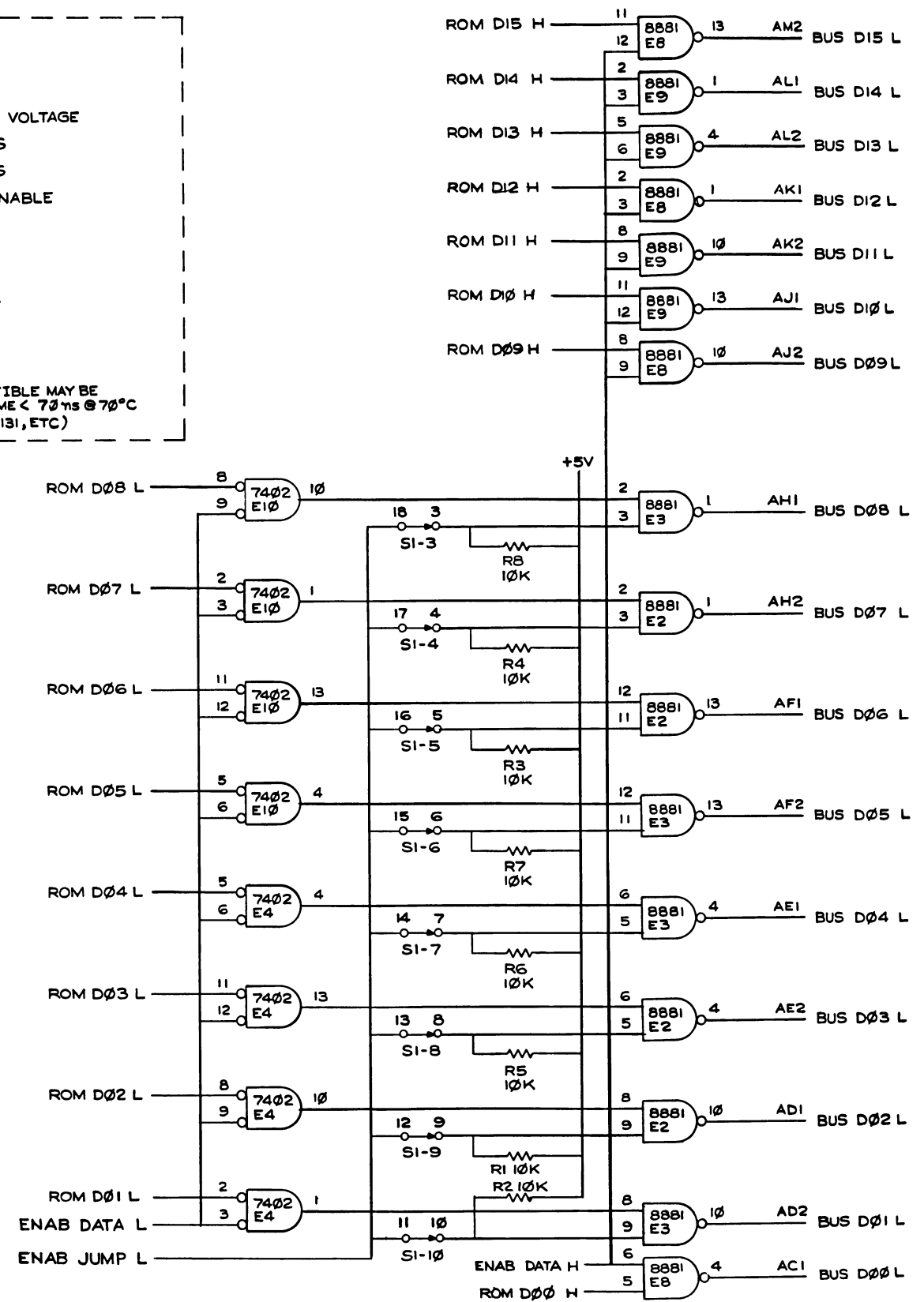


23-000A901

3. BLANK PROMS HAVE DEC PART NO. 23-000A901

4. BIPOLAR 2048 (512 X 4) BIT PROMS PIN COMPATIBLE MAY BE USED WITH TRI-STATE OUTPUTS AND ACCESS TIME < 70 ns @ 70°C (INTERSil 5624, MMI 6306, SIGNETICS 82S131, ETC)

ADDRESS RANGE	
765000 - 765776	LOW ROM
773000 - 773776	HIGH ROM

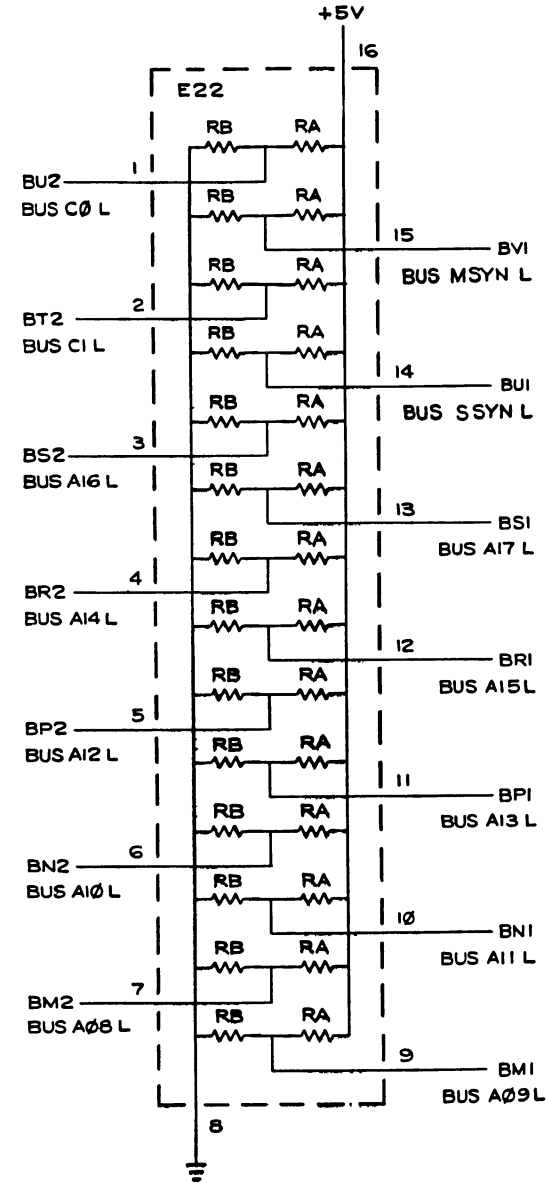
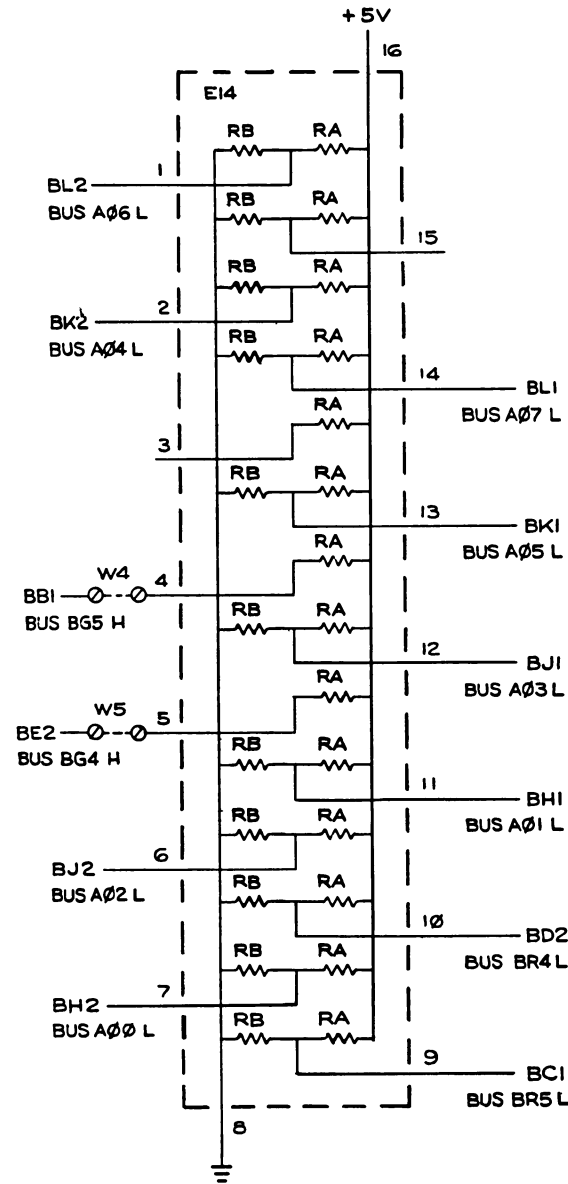
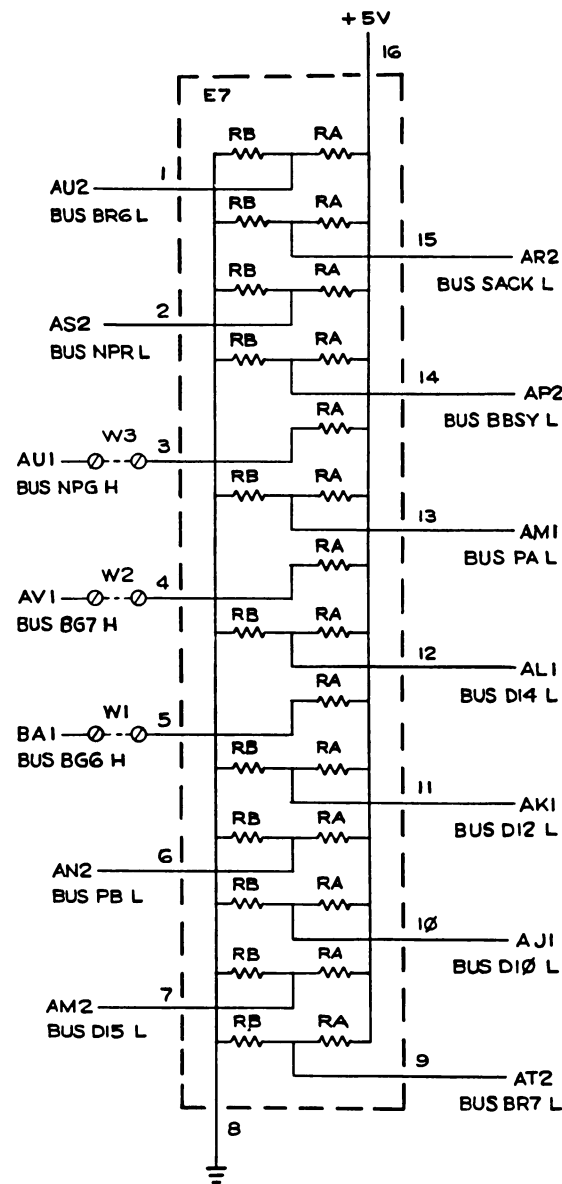
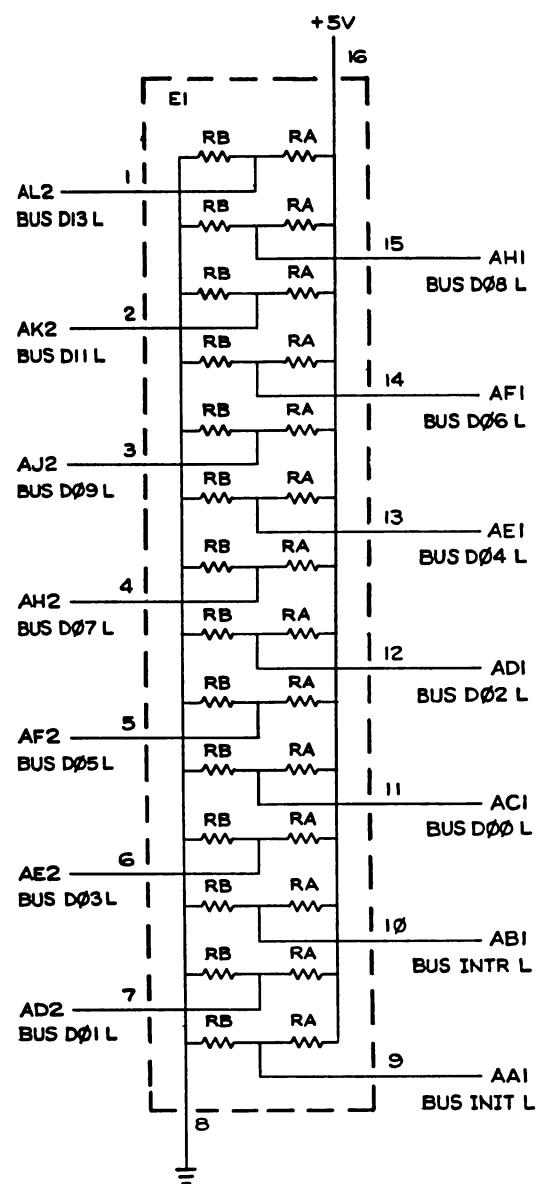


REVISIONS		
CHK	CHANGE NO	REV

DEC FORM 100
000 100

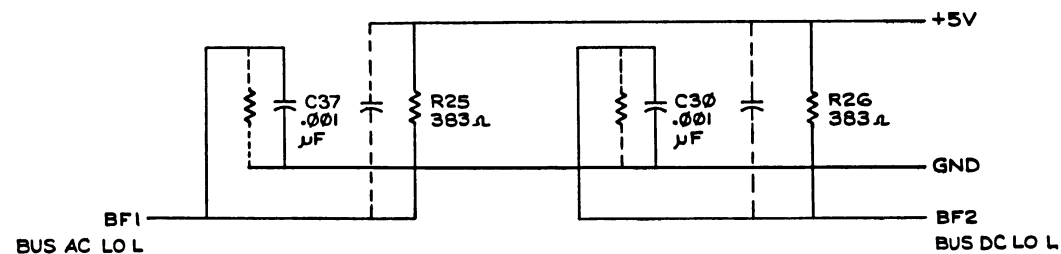
TITLE		SIZE CODE	NUMBER	REV.
UNIBUS TERMINATOR/BOOTSTRAP		D CS	M9301-0-1	W
SCALE		SHEET 4 OF 5	DIST.	

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NOTES :

1. ALL RA RESISTORS SHOWN ARE $176.5\Omega, \pm 2\%$
2. ALL RB RESISTORS SHOWN ARE $375\Omega, \pm 2\%$
3. JUMPERS W1 THRU W5 ARE ONLY INSERTED ON THE M9301-YC AND M9301-YH IF USED IN AN 11/70 COMPUTER.



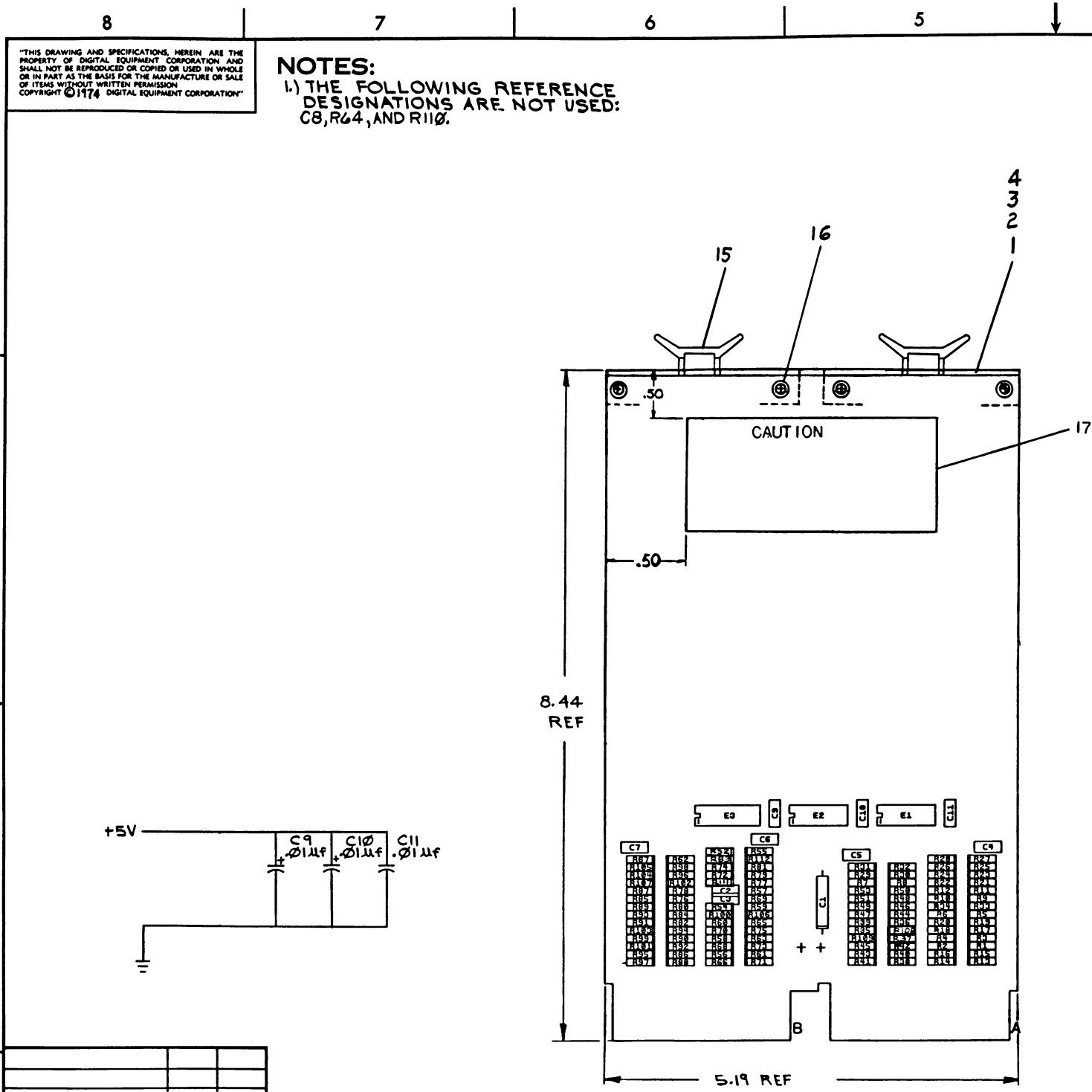
REVISIONS		
CHK	CHANGE NO	REV

TITLE
UNIBUS
TERMINATOR/BOOTSTRAP

SIZE CODE
DCS

NUMBER
M9301-0-1

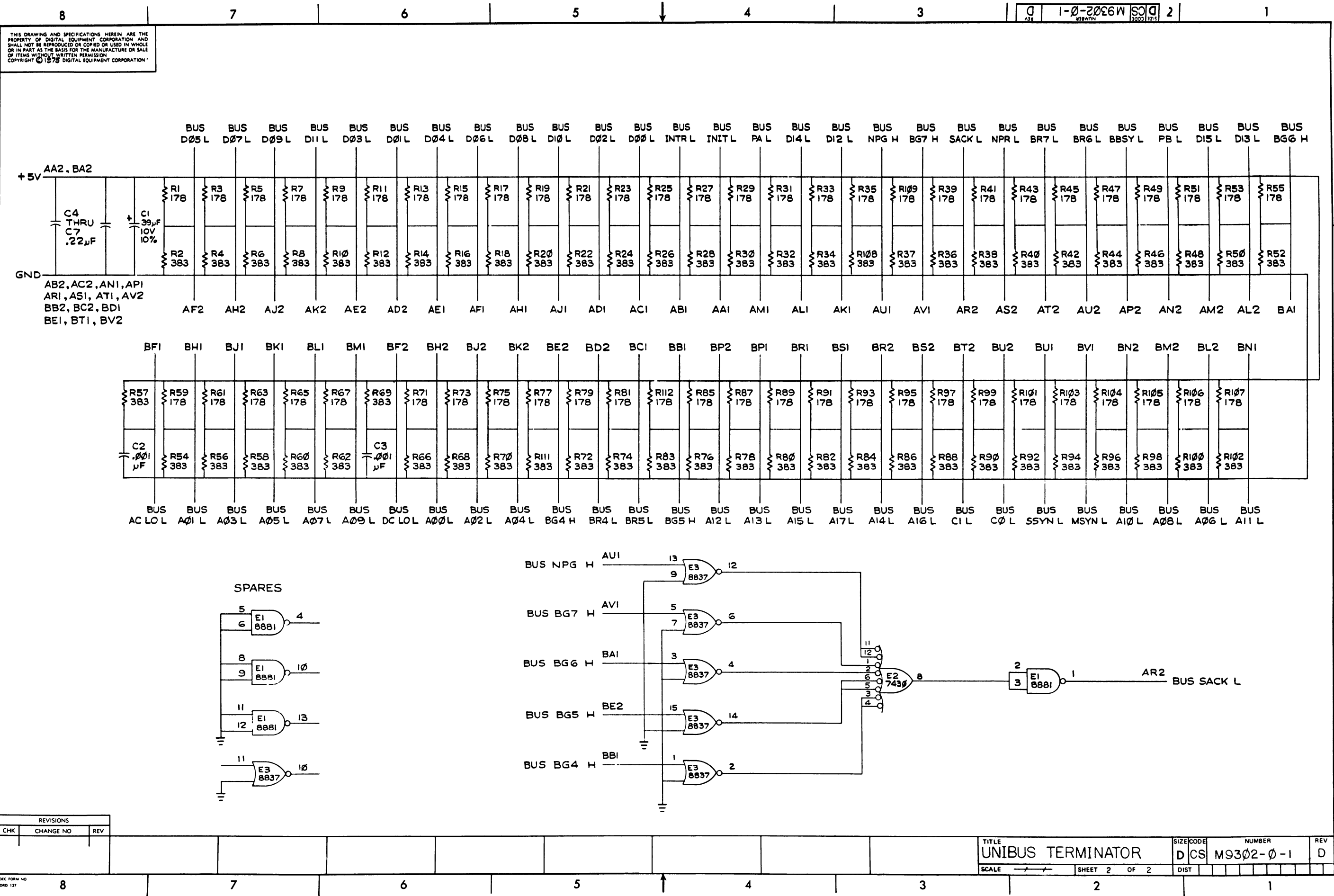
REV.
W



IC DEC 883T	8	16
IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

NOTES:
1.) THE FOLLOWING REFERENCE DESIGNATIONS ARE NOT USED:
C8, R64, AND R110.

Call # 41-10000-2132/177			
B. BERNSTEIN			
19302-00001			
19302-00002			
19302-00003			
19302-00002	D		
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FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

[illegible]

KYII-LA
**Field Maintenance
Print Set**

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00017

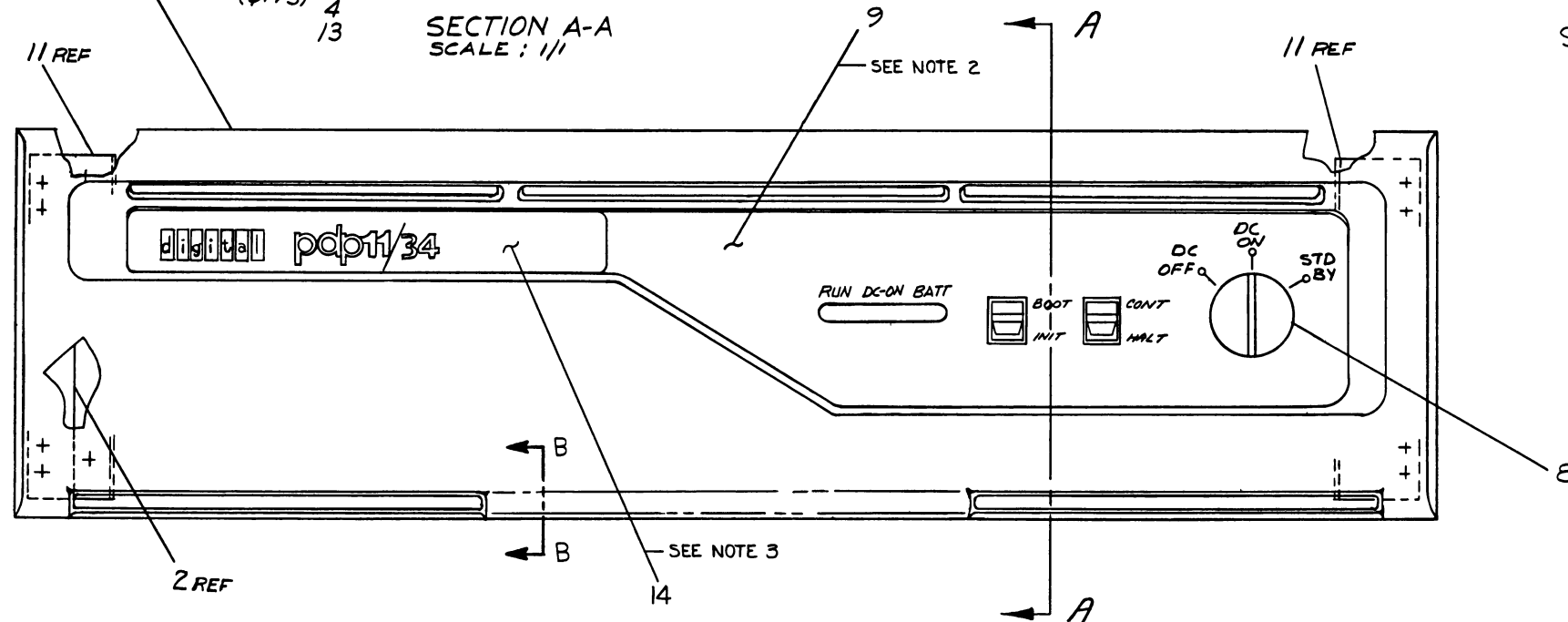
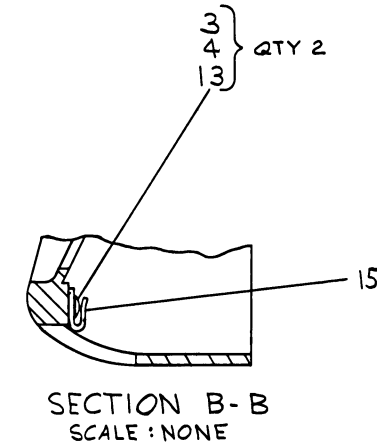
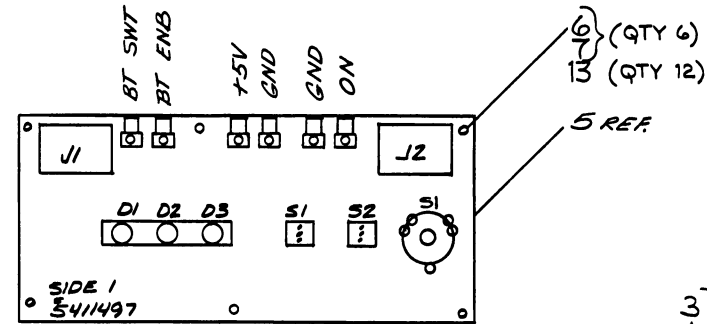
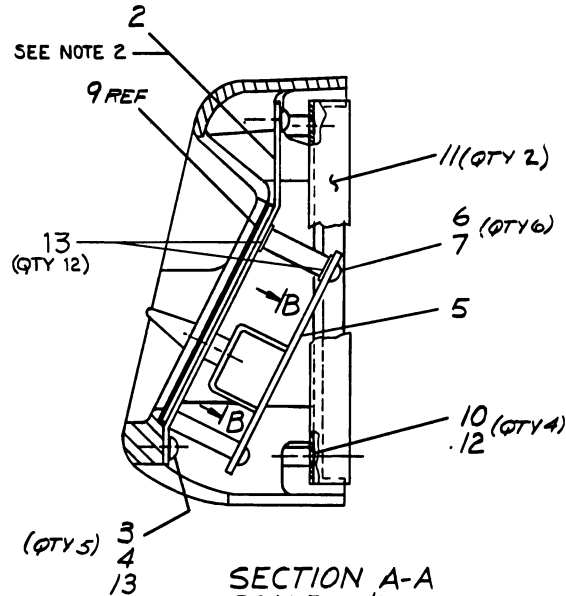
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NOTES

- PART NO. 7413657-1-0 MAY BE USED IF 7415599 IS NOT AVAILABLE.
- PRIOR TO ASSY. OF CONTROL PANEL TO SUPPORT PANEL, CLEAN ITEM 2 THOROUGHLY. AFTER CLEANING, APPLY THE ADHESIVE TRANSFER TAPE TO ITEM 2 ONLY TO AVOID ATTACHING THE SILK SCREENING POSITION ITEM 9 IN PLACE AND BOND
- OVERLAY DECAL TO BE SHIPPED LOOSE PIECE WITH THE UNIT AND ADDED AS SHOWN IF REQUIRED AT F.A. & T.
- ITEM *16 NOT SHOWN.
- ITEMS NO'S 1, 11 AND 16 ARE ADDED AT F.A. & T.



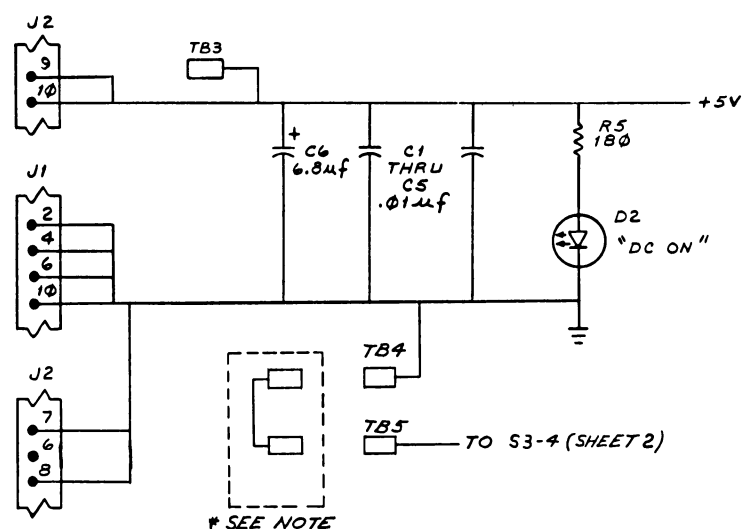
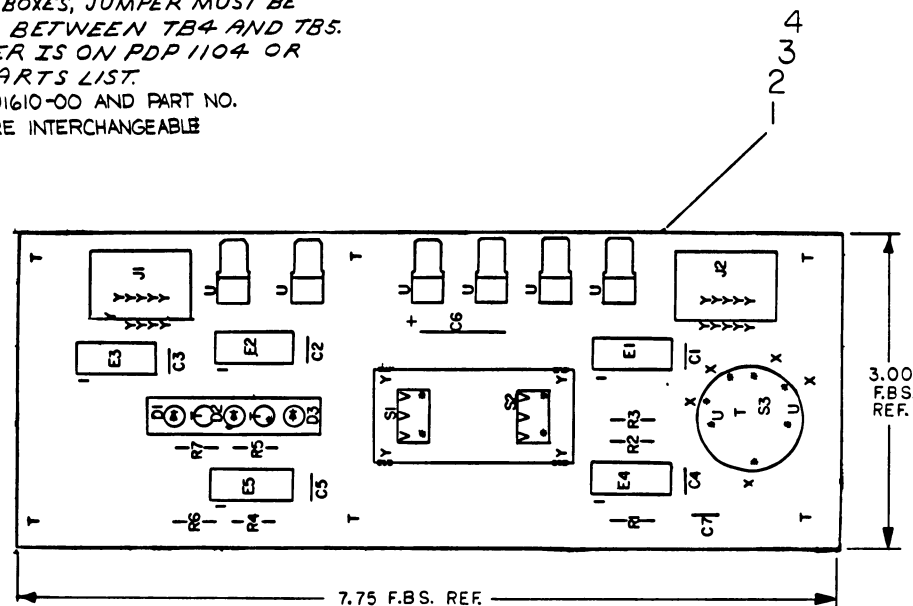
1	TAPE, ADHESIVE TRANSFER	9009210	18
1	ADHESIVE, SPRAY	9008907	17
1	BEZEL, COVER PROTECTIVE	D-MD-7415656-00	16
1	BRACE, SUPPORT PNL	7419008	15
1	OVERLAY, DECAL 11/34	A-PS-3613359-01	14
19	WASHER, FLAT, 3/16x1/8x.034	9006660	13
4	SPACER, HEX 1/4x.38 LG	9006802	12
1	BRKT, FILTER SUPPORT	GND-7414962-0-0	11
4	SCR, PHIL FL HD #8-32x.62	9006040-2	10
1	PANEL, CONTROL, CONSOL	D-MD-7413502-0-0	9
1	KNOB, ROTARY SWITCH	1212570	8
6	SCR PHIL HD PAN #8-32x.38	9006022-1	7
6	SPACER #6-32x.87	9006861	6
1	CIRCUIT ETCH BD KYII-LA	D-ES-5411997-0-1	5
7	SCR FILL HD PAN #8-32x.31	9009799-00	4
7	WASHER, SPRING LOCK #8	9006690	3
1	SUPPORT, PANEL	D-MD-7413501-0-0	2
1	BEZEL 11/04	E-MD-7415599-0-0	1

SEE NOTES 1 & 5

THIRD ANGLE PROJECTION	DRG. 11/04	FIRST USED ON	11/04
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D BY 11/04	PROD. 11/04	11/04
DO NOT SCALE DWG	NEXT HIGHER ASSY.	SCALE FULL	SHEET 1 OF 1
MATERIAL SEE PARTS LIST	FINISH	SIZE CODE D U A	NUMBER KYII-LA-0
TITLE		REV. H	
CONSOLE, OPER, ASSEMBLY		1	

REV.	CHANGE NO.	BY	DATE
1	1	11/04	11/04
2	2	11/04	11/04
3	3	11/04	11/04
4	4	11/04	11/04
5	5	11/04	11/04
6	6	11/04	11/04
7	7	11/04	11/04
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72	72	11/04	11/04
73	73	11/04	11/04
74	74	11/04	11/04
75	75	11/04	11/04
76	76	11/04	11/04
77	77	11/04	11/04
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89	89	11/04	11/04
90	90	11/04	11/04
91	91	11/04	11/04
92	92	11/04	11/04
93	93	11/04	11/04
94	94	11/04	11/04
95	95	11/04	11/04
96	96	11/04	11/04
97	97	11/04	11/04
98	98	11/04	11/04
99	99	11/04	11/04
100	100	11/04	11/04

1. IN BAIL-1 BOXES, JUMPER MUST BE INSTALLED BETWEEN TB4 AND TB5. THE JUMPER IS ON PDP 1104 OR PDP 1134 PARTS LIST.
2. PART NO. 1001610-00 AND PART NO. 1001610-01 ARE INTERCHANGEABLE



REF		DESCRIPTION	QUANTITY	UNIT
		X-Y COORDINATE HOLE LOCATION	M-CO-5411497-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411497-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411497-0-6	3
1		ETCHED CIRCUIT BOARD	5011496	4
5	C1 THRU C5	CAPACITOR, $\phi 1\mu f$, 100V	1001610 - O1	5
1	C6	CAPACITOR, 6.8 μf , 35V, 10%	1005306	6
1	C7	CAPACITOR, 1000PF, 100V	10000042	7
3	D1,D2,D3	DIODE, LIGHT EMITTING	1110864	8
1	S2	SWITCH, TOGGLE	1210840	9
1	S1	SWITCH, MOMENTARY	121C841	10
1	S3	SWITCH, ROTARY	1212560	11
1		HOLDER, TRIPLE L.E.D	1210940 - 02	12
2	J1,J2	CONNECTOR, 10 PIN	1209941-05	13
2	R4, R6	RESISTOR, 1K, 1/4W, 5%	1300365	14
3	R1, R5, R7	RESISTOR, 180 Ω , 1/4W, 5%	1301322	15
1	E5	I. C. DEC 7474	1905547	16
1	E3	I. C. DEC 8640	1911469	17
2	E1, E2	I. C. DEC 8881	1909705	18
1	E4	I. C. DEC 7402	1909004	19
6		TERMINAL, QUICK DISCONNECT	9007112	20
6		EYELET	9009000	21
2		SCREW, SELF-TAPING, #4-40X.31 LG	9009236	22
1		PLATE, SWITCH MTG.	7413505-0-0	23
2	(S1), (S2)	KNOB	1210786	24
				25
				26
2	R2, R3	RESISTOR 330, 1/4W, 5 %	1300295	27
WIR		WIRE, BUS #20	9107563-02	28
WIR		TUBING, NATURAL #20	9107267-H	29

QTY	REF. DESIGNATION	DESCRIPTION		PART NO.	ITEM NO.
PARTS LIST					
ETCH BOARD REV.	F				
		DRN. <i>J. Vincent</i>	DATE 4-23-75	 TITLE KY11-LA	
		CHKD. <i>[Signature]</i>	DATE 8-15-75		
		ENG. <i>W. J. R. H.</i>	DATE 8-1-75		
		PROJ. ENG. <i>W. J. R. H.</i>	DATE 8-11-75		
		PROD.	DATE		
		NEXT HIGHER ASSY			
DEC NO.	EIA NO.	SCALE <i>1/1</i>	SIZE CODE	NUMBER	REV.
CONVERSION CHART		SHEET 1 OF 2	DIST	5411497-0-1	H

A

I. C. DEC 8640	1	8
IC TYPE	GND	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14
RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

366	Brace	11-11-77	
	BRUCE CRAMM		
	Buck O Hunt 23 Aug 77		
	42 541497-00005 H		
	Stackhouse 24 Aug 77		
	D. BARRY		
	Barry 22 JUL 77		
	541497-00002 F		
	USC and Barry 24-08-76		
	R BARRY		
	Barry 1 Aug.		
	541497-00001		

REV.	CHANGE NO.	REVISIONS	EIA FORM REV.	
			1	2
	DEC NO.	EIA NO.	DEC NO.	EIA NO.

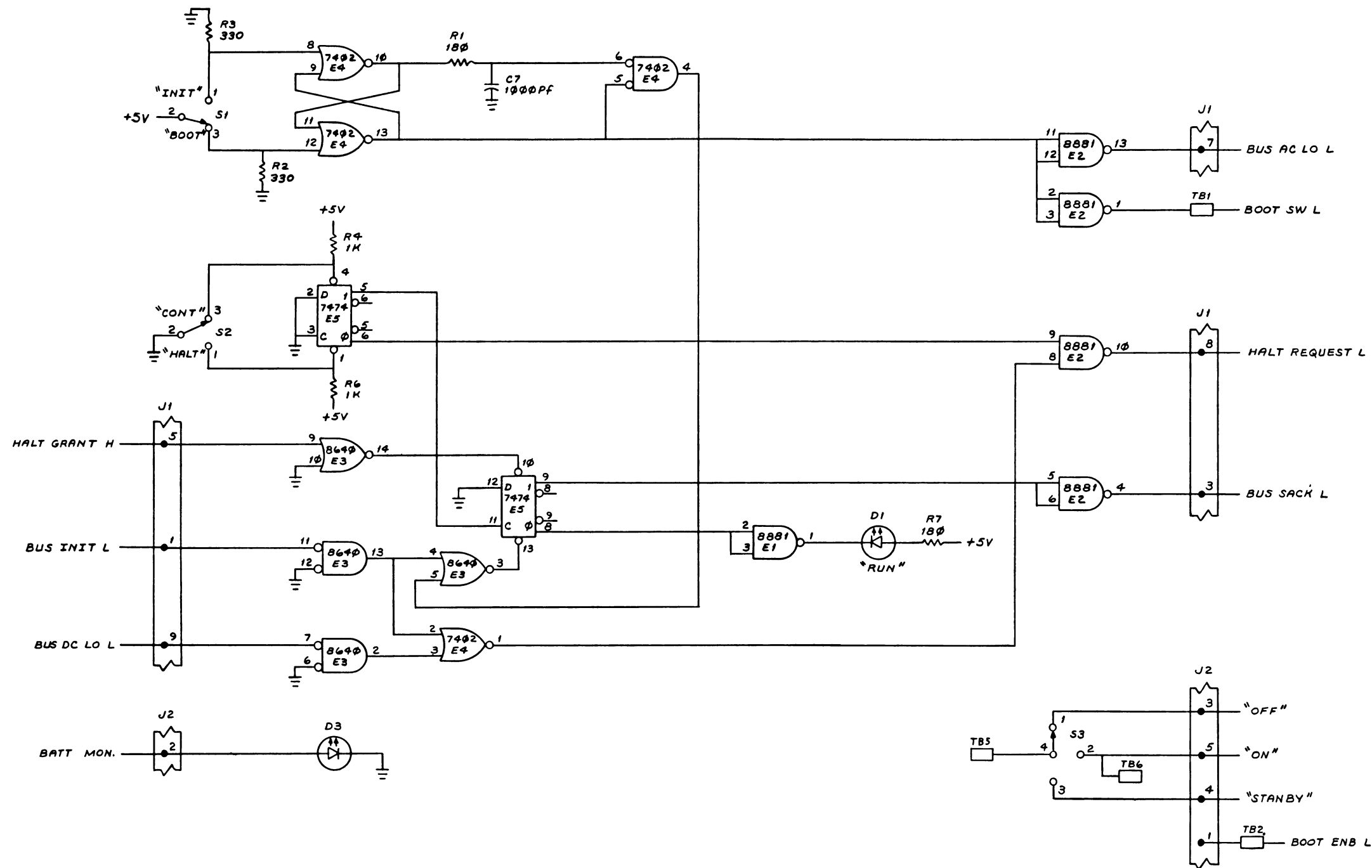
SEMICONDUCTOR CONVERSION CHART

DRN.	J. Vincent	DATE	4-23-78
CHK'D	Pat For [unclear]	DATE	5-15-78
ENG.	1-1-78 1-2-78	DATE	5-17-78
PROJ. ENG.	1-1-78 5-11	DATE	6/11
PROD.		DATE	
NEXT HIGHER ASSY			
SCALE 11			
SHEET 1 OF 2			

TITLE			
KY11-LA			
SIZE	CODE	NUMBER	REV.
D	CS	5411497-0-1	H
DIST			

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H 1-0-0-1
A33
CS 5411497-0-1
2

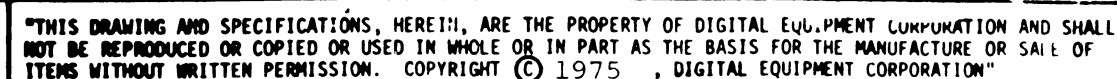


REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO. 000 130

TITLE
KY11-LA
SCALE
SHEET 2 OF 2
SIZE CODE
D CS
NUMBER
5411497-0-1
REV.
H

BLANK



~~THIS IS PRINT SET~~

[illegible]

ELECTRICAL (SECTION 1)						MECHANICAL (SECTION 2)									
CUSTOMER PRINT SET		FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	CUSTOMER PRINT SET		FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	CUSTOMER PRINT SET	
		1	D-UA-KY11-LA-Ø		1	CONSOLE OPER ASSY			1	D-UA-KY11-LA-Ø		1	CONSOLE OPER ASSY		
										D-MD-7413501-0-0		1	SUPPORT, PANEL		
										C-MD-7419008		1	BRACE, SUPPORT PANEL		

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

FIELD MAINT. PRINT SET KY11-LB	B-TC-KY11-LB-1
CONSOLE ASSY PROGRAMMERS	D-UA-KY11-LB-Ø
CIRCUIT ETCH BOARD KY11-LB	D-CS-5411800-0-1
CIRCUIT, INTERFACE, PROG.	D-CS-M7859-Ø-1
CONSOLE	
DRAWING DIRECTORY	B-DD-KY11-LB

B-DD-KY11-LB

**UNIT VARIATIONS
COVERED BY THIS
PRINT SET**

KY11-LB

KYII-LB
Field Maintenance
Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00015

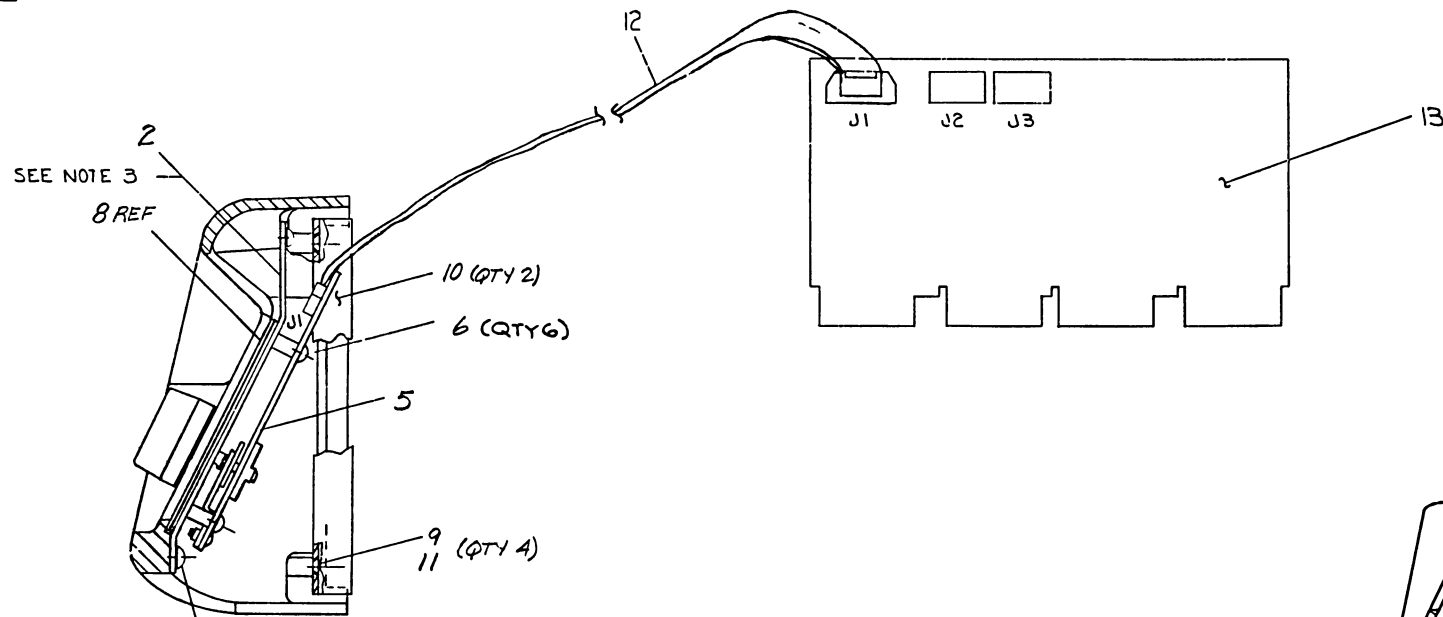
REVISIONS		DATE	CHG. NO.	REV.	USED ON OPTION/MODEL		DRN.	DATE	TITLE:									
524-77		KY11-LB-3	A		11/34		D. HEALY	11/5/75	FIELD MAINTENANCE PRINT SET KY11-LB									
							CHK'D	DATE										
							D. HEALY	11/6/75										
							PROJ. ENG.	DATE										
							R.B PRATT	12-11-75										
							FIELD SERV.	DATE	SIZE	CODE	NUMBER				REV.			
								1-5-76	B	TC	KY11-LB-1				A			
							SHEET I OF 1		DIST.									

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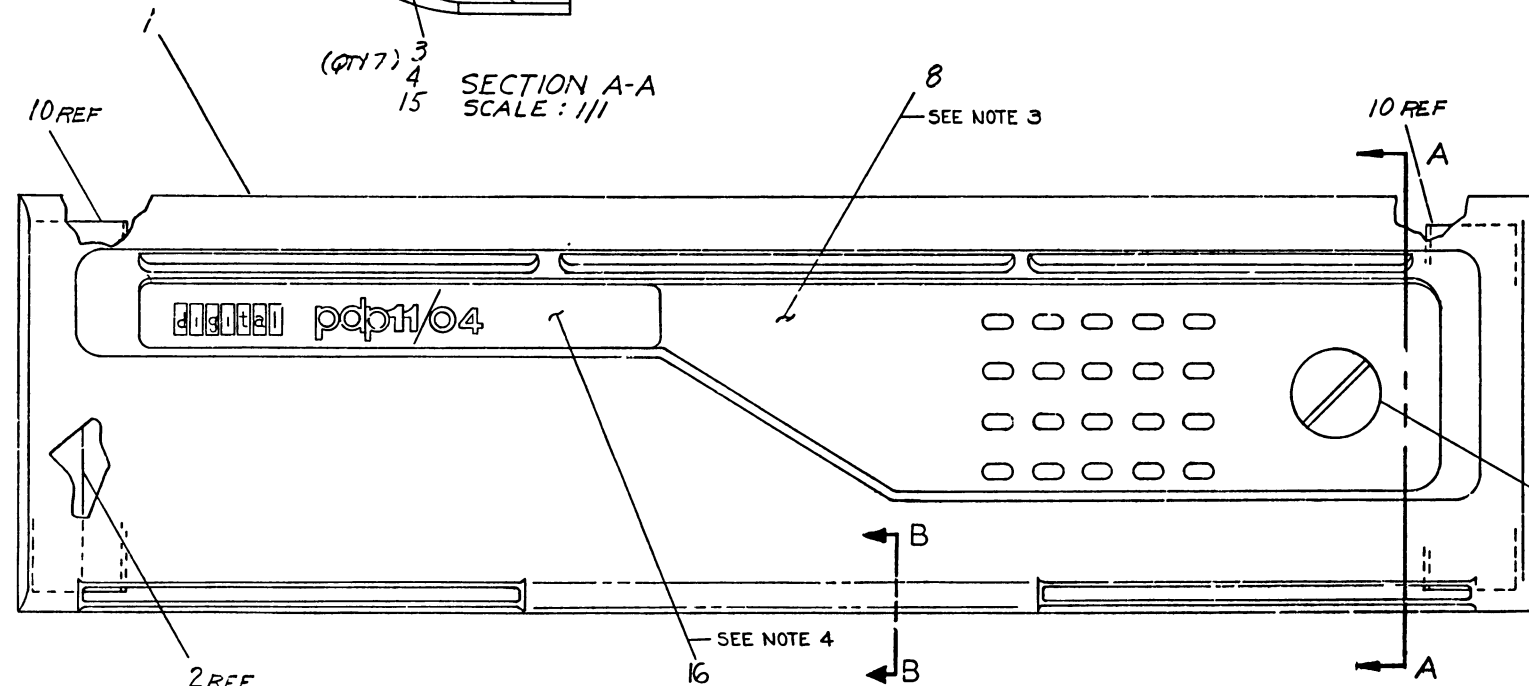
NOTES:

- ITEM #14 NOT SHOWN ON THIS ASSY, TO BE SUPPLIED AS LOOSE PIECE - 2 REQ'D
- PART #7413657-1-0 MAY BE USED WHEN 7415599 IS NOT AVAILABLE.
- PRIOR TO ASSY OF PROGRAMMERS PANEL TO SUPPORT PANEL, CLEAN ITEM 2 THOROUGHLY. AFTER CLEANING, APPLY THE ADHESIVE TRANSFER TAPE TO ITEM 2 ONLY TO AVOID ATTACHING THE SILK SCREENING. POSITION ITEM 8 IN PLACE AND BOND
- OVERLAY DECAL TO BE SHIPPED LOOSE PIECE WITH THE UNIT AND ADDED AS SHOWN IF REQUIRED AT FA#T
- ITEMS NO. 1 AND 10 ARE ADDED AT FA#T.



SECTION A-A
SCALE: 1/1

SECTION B-B
SCALE: NONE



AIR TAPE, ADHESIVE TRANSFER	9009210	18
1 BRACE, SUPPORT PAN.	C-MD-7419008-00	17
1 OVERLAY, DECAL 11/04	A-P5-3613359-0-0	16
7 WASHER, FLAT 375x187x.036	9006660	15
2 CABLE CONS TO BACKPLANE	C-IA-7011411-ID-0	14
1 INTERFACE, PROG CNSL	D-CS-M7859-04	13
1 CABLE, CNLS TO M7859	D-IA-702214-0-0	12
4 SPACER HEX 1/4x.38L	9006802	11
REF BRKT FILTER SUPPORT	C-MD-744962-0-0	10
4 SCR PHIL FL HD #832x.62	9006040-2	9
1 PANEL, PROGRAMMERS	D-IA-7415047-0-0	8
1 KNOB, ROTARY	1212570	7
6 SCR PHIL HD PAN #632x.38	9006022-1	6
1 CIRCUIT ETCH BD KY11-LB	D-CS-5411800-0-1	5
7 SCR FILL HD PAN #832x.31	9009799-00	4
7 WASHER, SPRING LOCK	9006690	3
1 SUPPORT, PANEL	D-IA-7415048-0-0	2
SEE NOTE 5 REF BEZEL 11/04	EMD-7415599-0-0	1

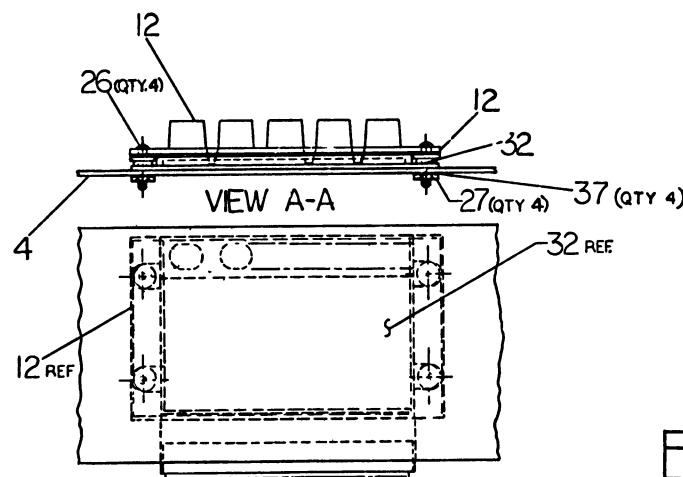
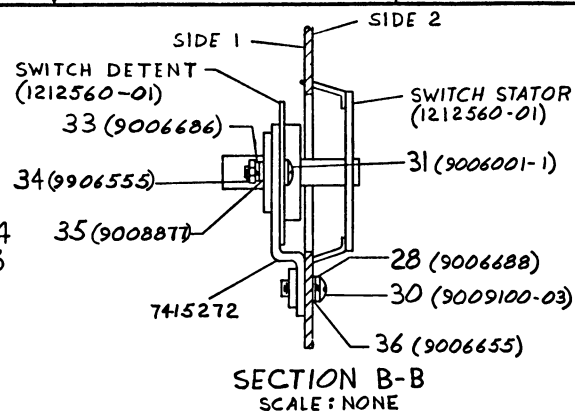
SEE NOTE 5

SEE NOTE 5

QUANTITY & VARIATION	DESCRIPTION	DWG / PART NO	ITEM NO
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG		
MATERIAL	FINISH		
NEXT HIGHER ASSY		SIZE CODE	
SCALE		DIST	
SHEET 1 OF 1		REV. F	
DRN: [Signature]		FIRST USED ON 11/54	
CHK'D: [Signature]		TITLE	
ENG: [Signature]		CONSOLE ASSY PROGRAMMERS	
PROJ. ENG: [Signature]		NUMBER	
PROD. R. [Signature]		REV. F	

REV	CHANGE NO	BY	DATE
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2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
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100	100	100	100

1. ARROW ON BOARD IS TO LINE UP WITH
ARROW ON CONNECTOR (J1 & J2).



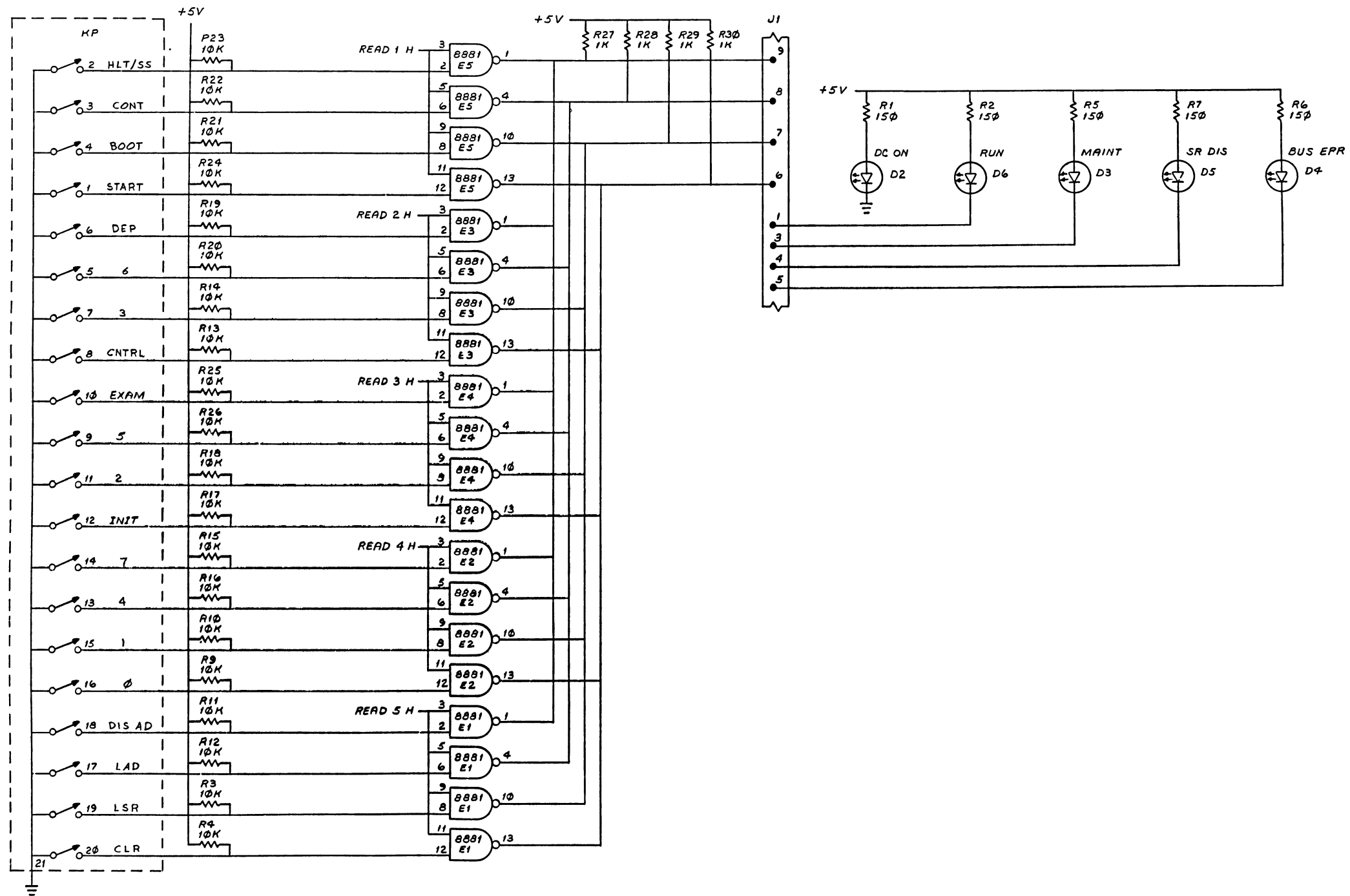
Richard B. Pratt	55 Jan - 77
B. PRATT	
P. H. 17 DEC 76	
5411800-00002 D	
BLU 20 SEP 76	
B. BERNSTEIN	
20 SEP 76	
5411800-00001 C	
CHK	REV
CHANGE NO.	REVISIONS

QTY	REF. DESIGNATION	DESCRIPTION										PART NO.	ITEM NO.
PARTS LIST													
ETCH BOARD REV.		C											
			DRN.	<i>J. J. Jones</i>	DATE	9-19-75	digital TITLE KY11-LB (CONSOLE BOARD)						
			CHGCD.	<i>7-19-75</i>	DATE	1-21-75							
			ENG.	<i>R. B. Hoff</i>	DATE	11-26-75							
			PROJ. ENG.	<i>R. B. Hoff</i>	DATE	11-26-75							
			PROJ.	<i>R. J. Miller</i>	DATE	2-3-76							
			NEXT HIGHER ASSY										
DEC NO.	EIA NO.	SCALE				SIZE CODE		NUMBER				REV.	
		SHEET 1 OF 3				D CS		5411800-0-1				D	
CONVERSION CHART													

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D 5411800-0-1 2

D
C
B
A



REV D
NUMBER DCS 5411800-0-1
SIZE 100K

B

A

REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
KY11-LB (CONSOLE BOARD)		D CS	5411800-0-1	D
SCALE	SHEET	DIST.		
	2 OF 3			

FORM NO.

8

7

6

5

4

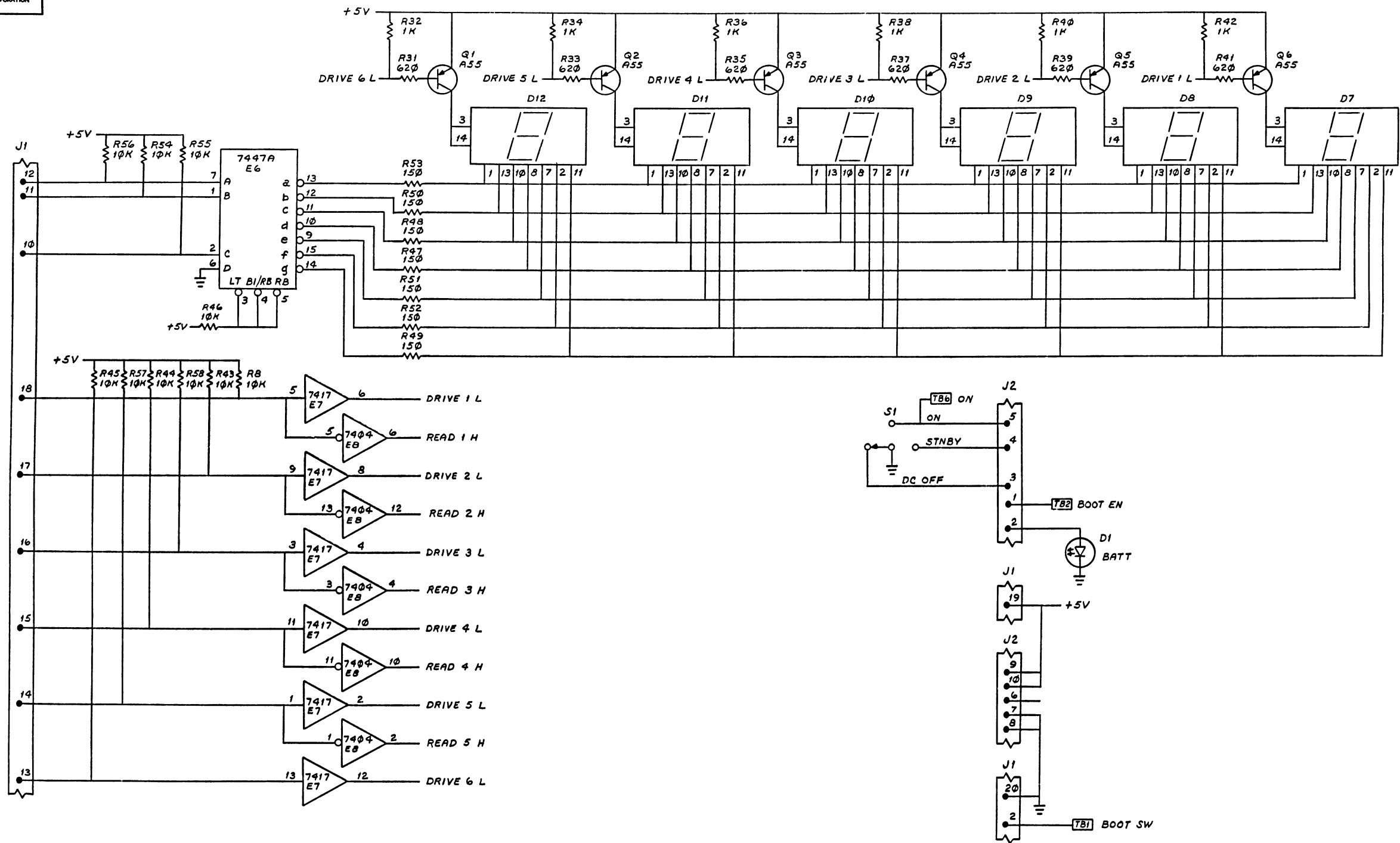
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2

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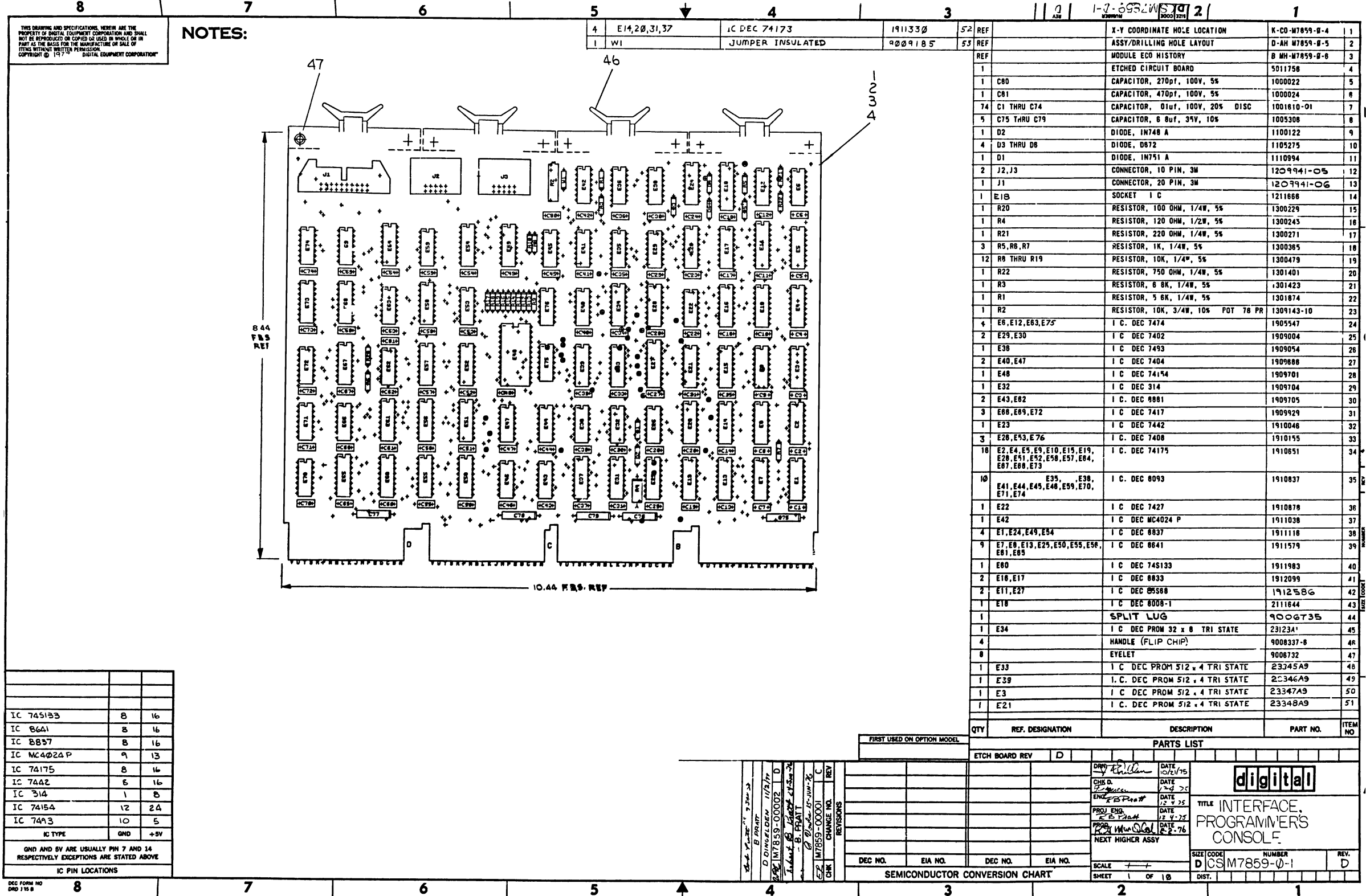
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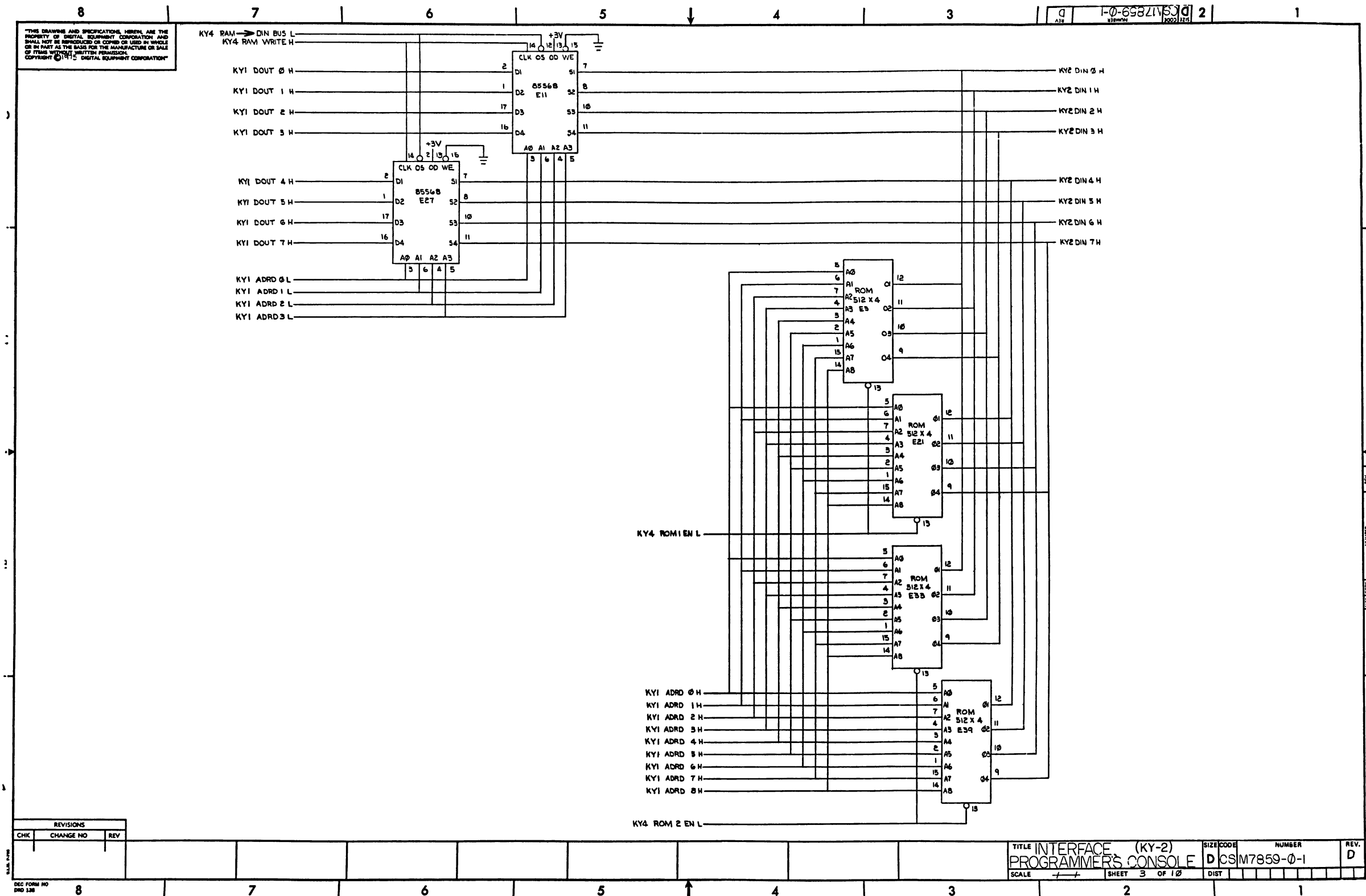


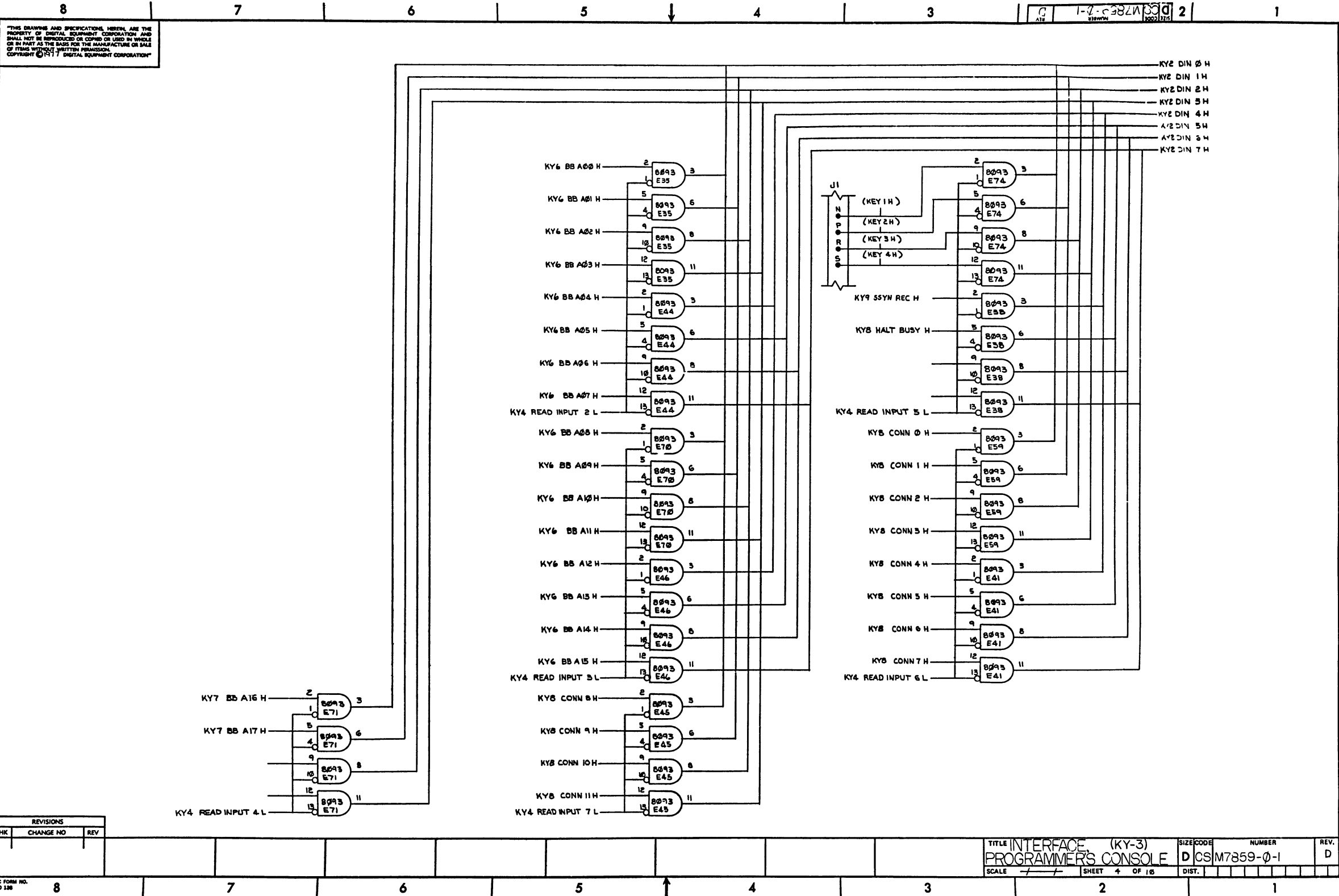
REVISIONS		
CHK	CHANGE NO	REV

TITLE	KY11-LB (CONSOLE BOARD)	SIZE CODE	NUMBER	REV.
SCALE	1/1	SHEET	3 OF 3	D

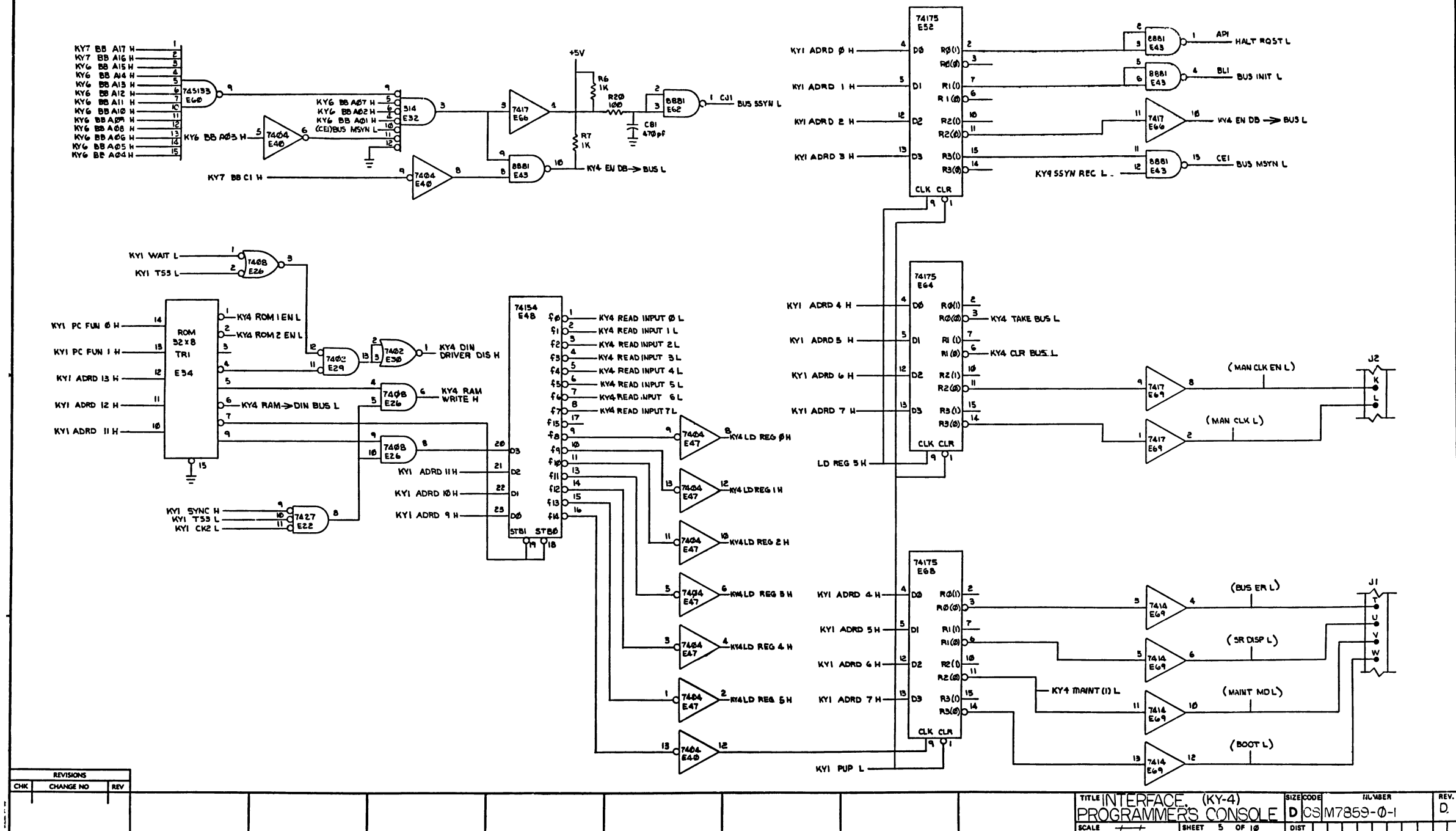
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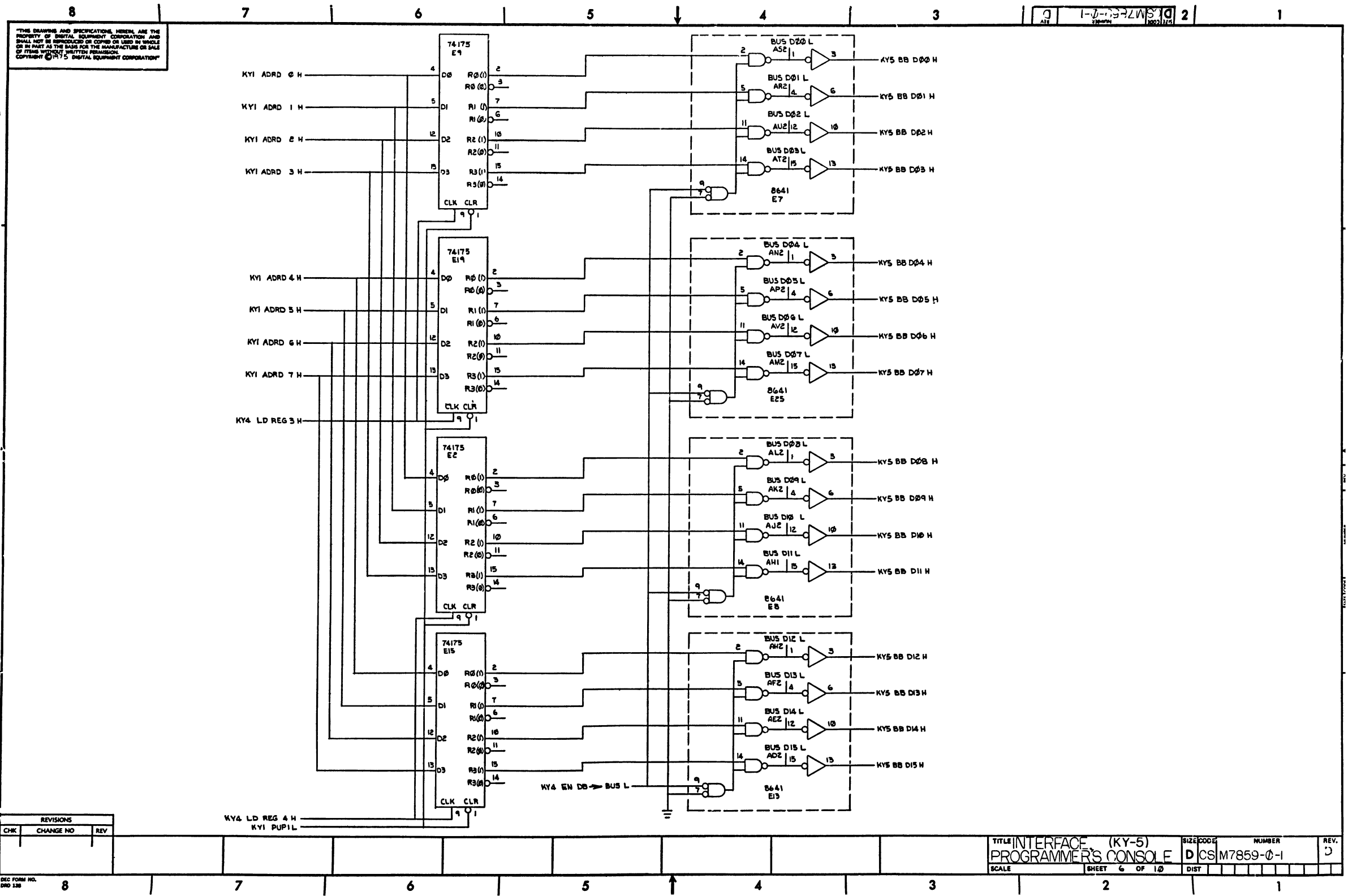


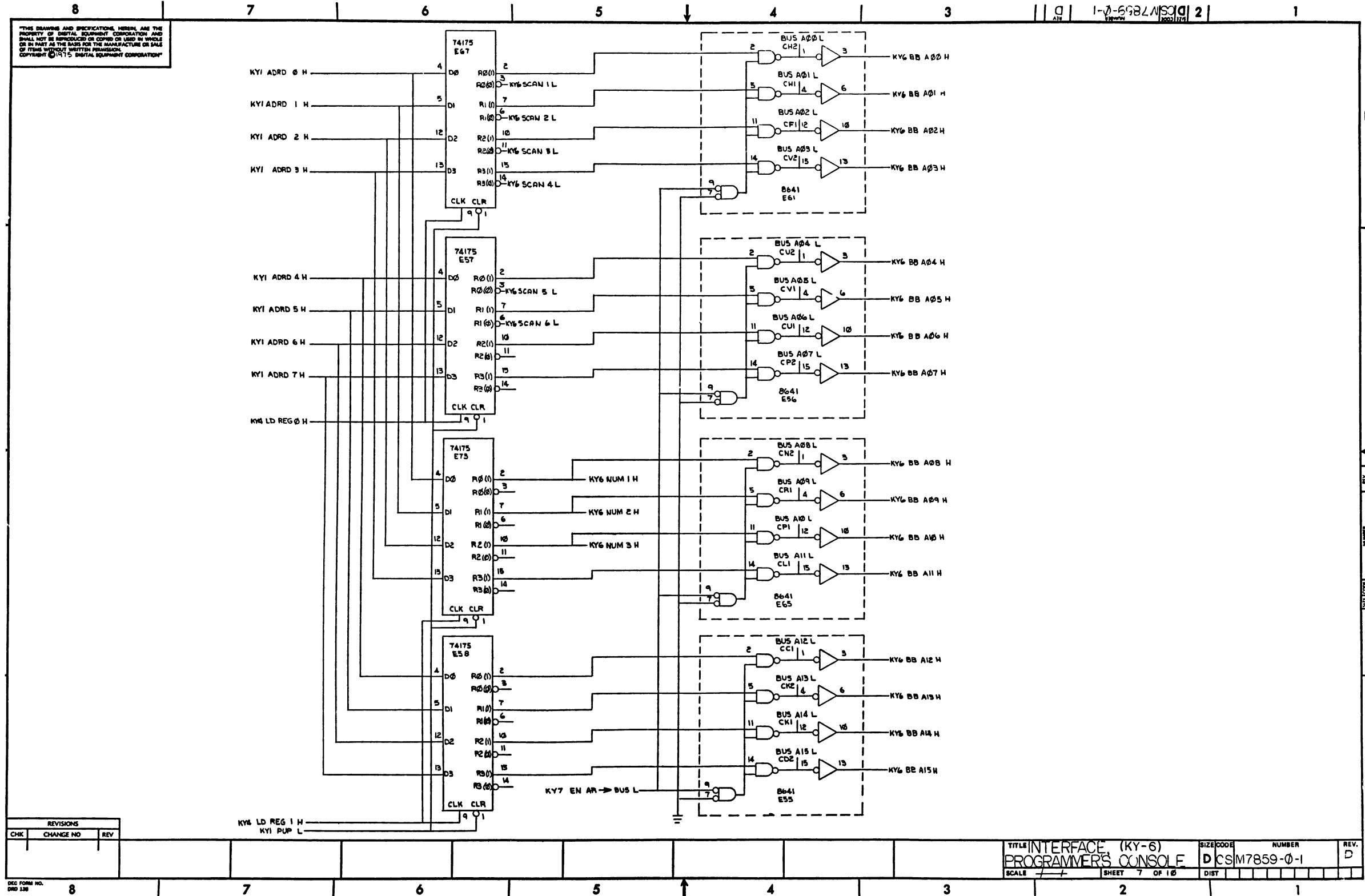
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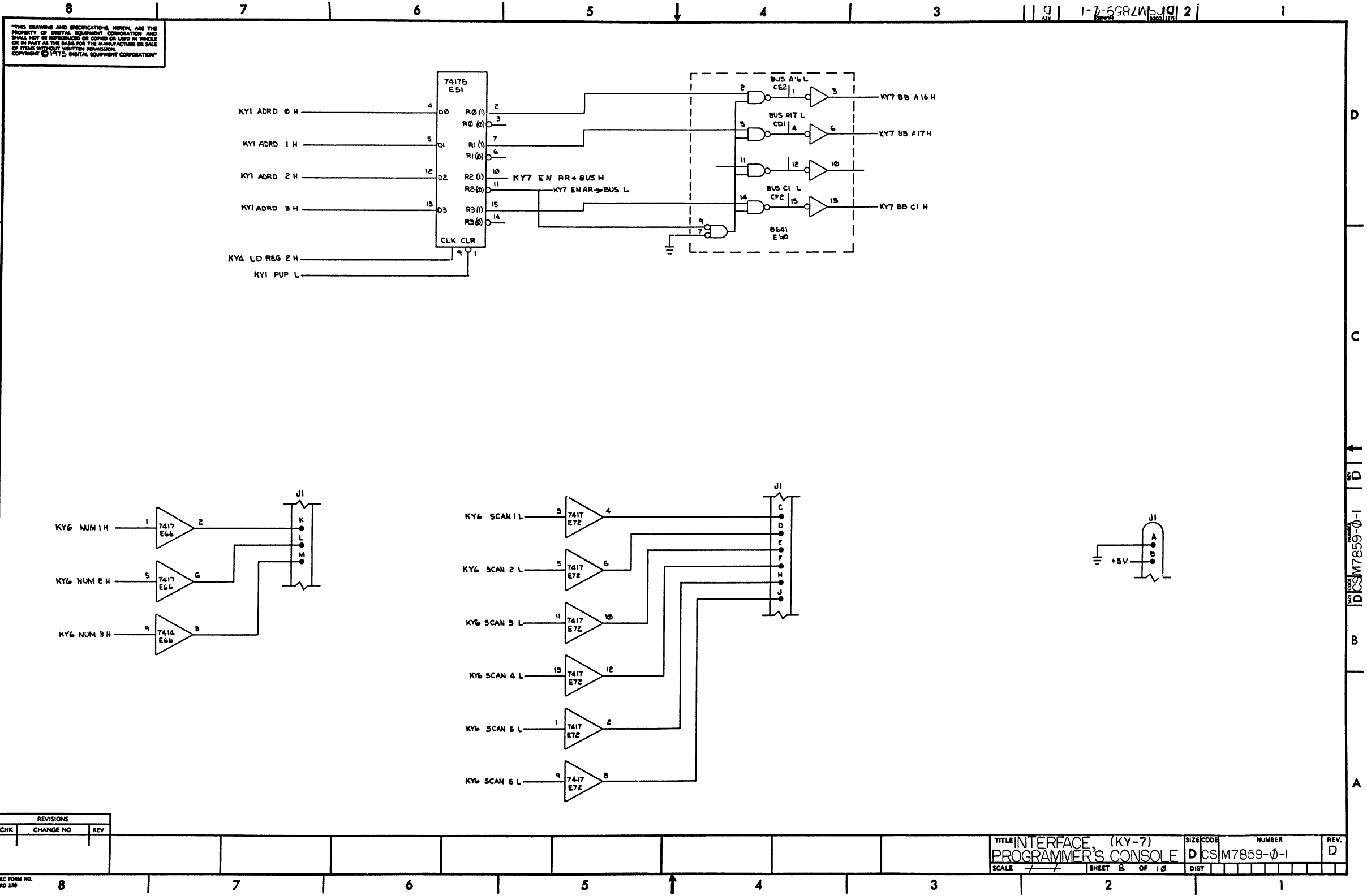


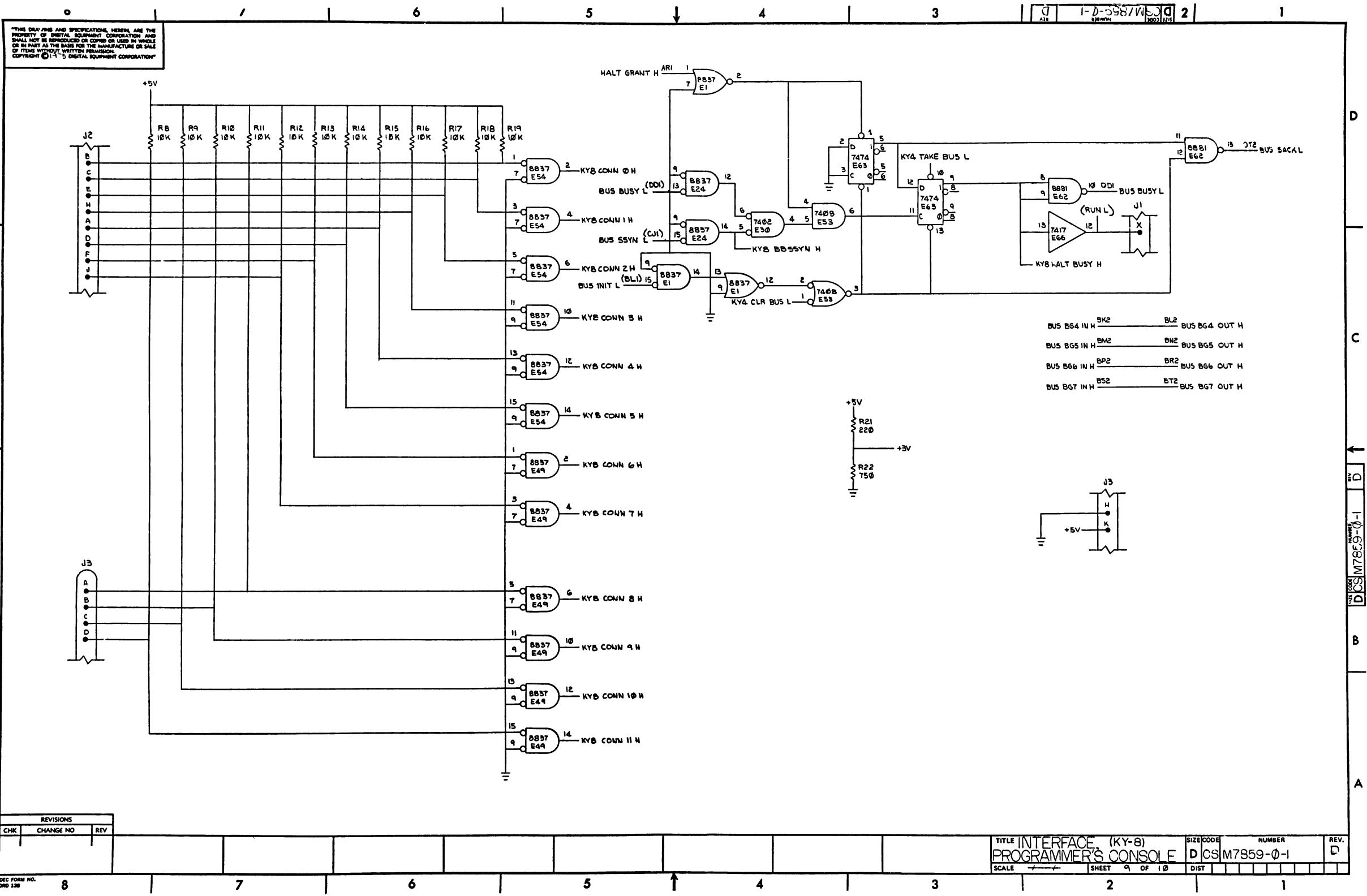
REVISIONS		
CHK	CHANGE NO	REV

TITLE INTERFACE. (KY-4)		SIZE	CODE	NUMBER		REV.
PROGRAMMER'S CONSOLE		D	CS	M7859-0-1		D.
SCALE	5 OF 10	SHEET	DIST			









REVISIONS		
CHK	CHANGE NO	REV

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B-TC-DL11-W-1
A-PL-DL11-W-Ø
D-CS-M7856-Ø-1
K-CS-M7856-Ø-9
D-IA-7008360-0-0
D-UA-BCØ5C-Ø-Ø
D-UA-BC03L-0-0
A-SP-DL11-W-2

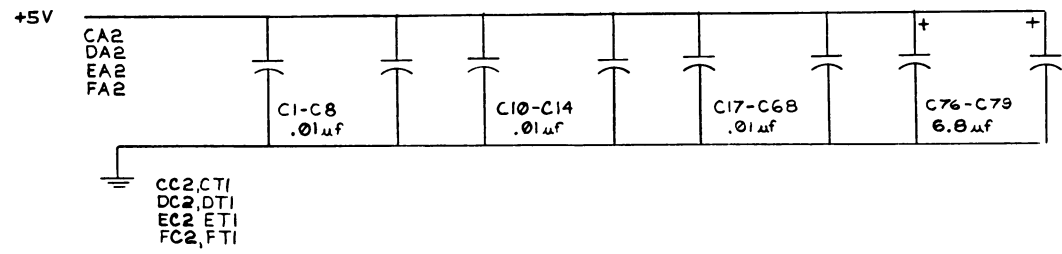
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MP00106

EN-01124 16-M678-(327)

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NOTES:



IC 8641	8	16
IC 84	1	8
IC 88-7	8	16
IC 14A	1	8
IC 7412	8	16
IC 74157	8	16
IC 74153	8	16
IC 749	10	5
IC 7492	10	5
IC 74151	8	16
IC 74175	8	16
IC UART	1	3
IC 8097	8	16
IC TYPE	GND	+5V

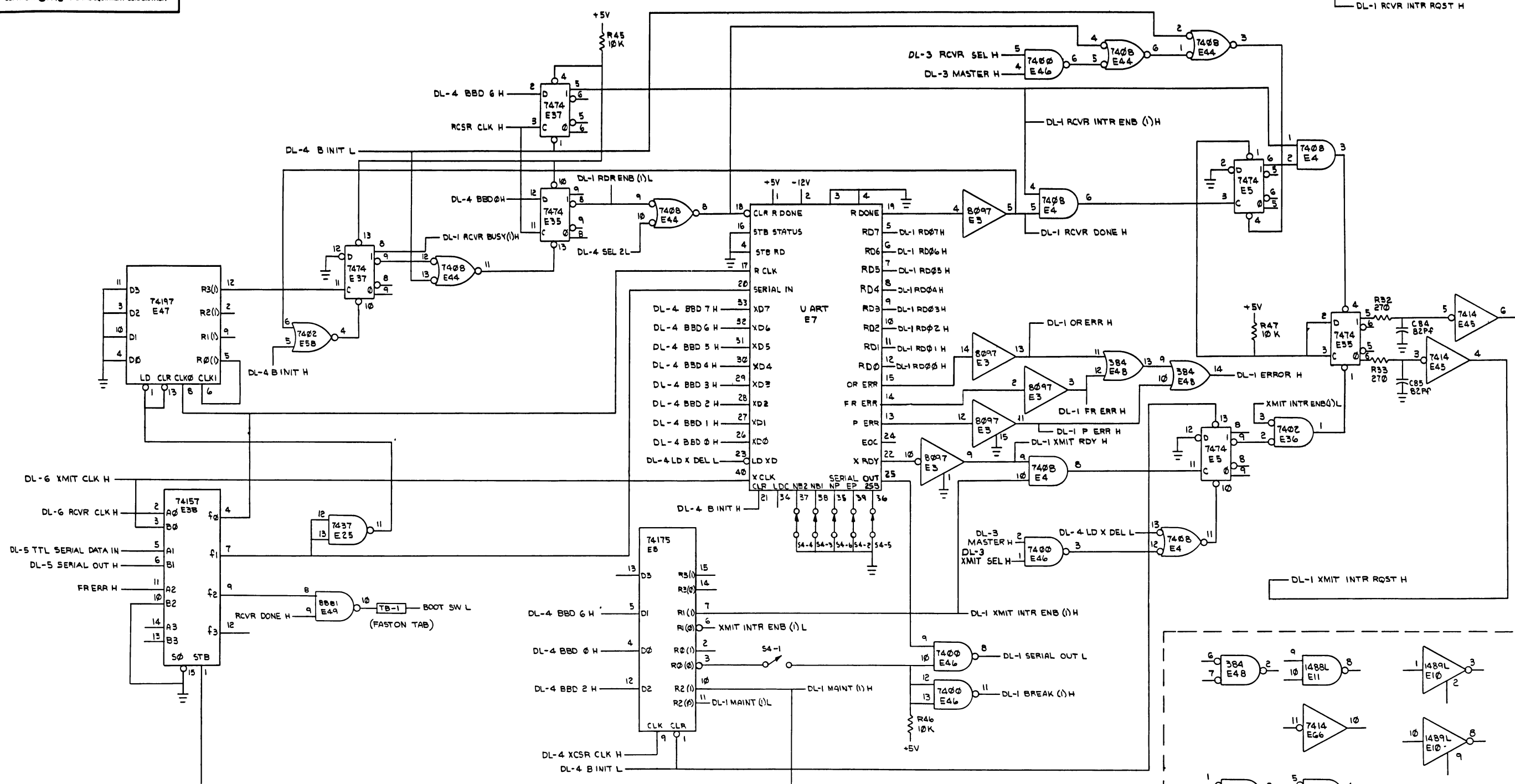
GND AND 5V ARE USUALLY PIN 7 AND 14
RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL		QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
ETCH BOARD REV.		E	PARTS LIST			
REV. 1		DATE 2/23/78	digital			
CHK. 1		DATE 3-8-78	TITLE			
ENG. 1		DATE 3-9-78	SLU/RTC OPTION			
PROJ. ENG. 1		DATE 3-9-78	NEXT HIGHER ASSY			
PROG. 1		DATE 3-10-78	SCALE			
SEMICONDUCTOR CONVERSION CHART		SHEET 1 OF 8		DIST.		

REV. H
NUMBER M7856-0-1
REV. D

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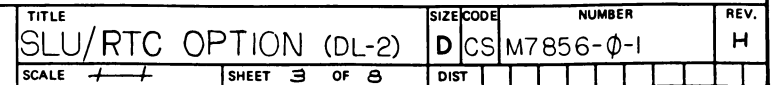


REVISIONS		
CHK	CHANGE NO	REV

TITLE		SLU/RTC OPTION (DL-1)	SIZE CODE	D	NUMBER	M7856-0-1	REV.	H
SCALE		+	+		SHEET 2 OF 8		DIST.	

REV. H
M7856-0-1

A

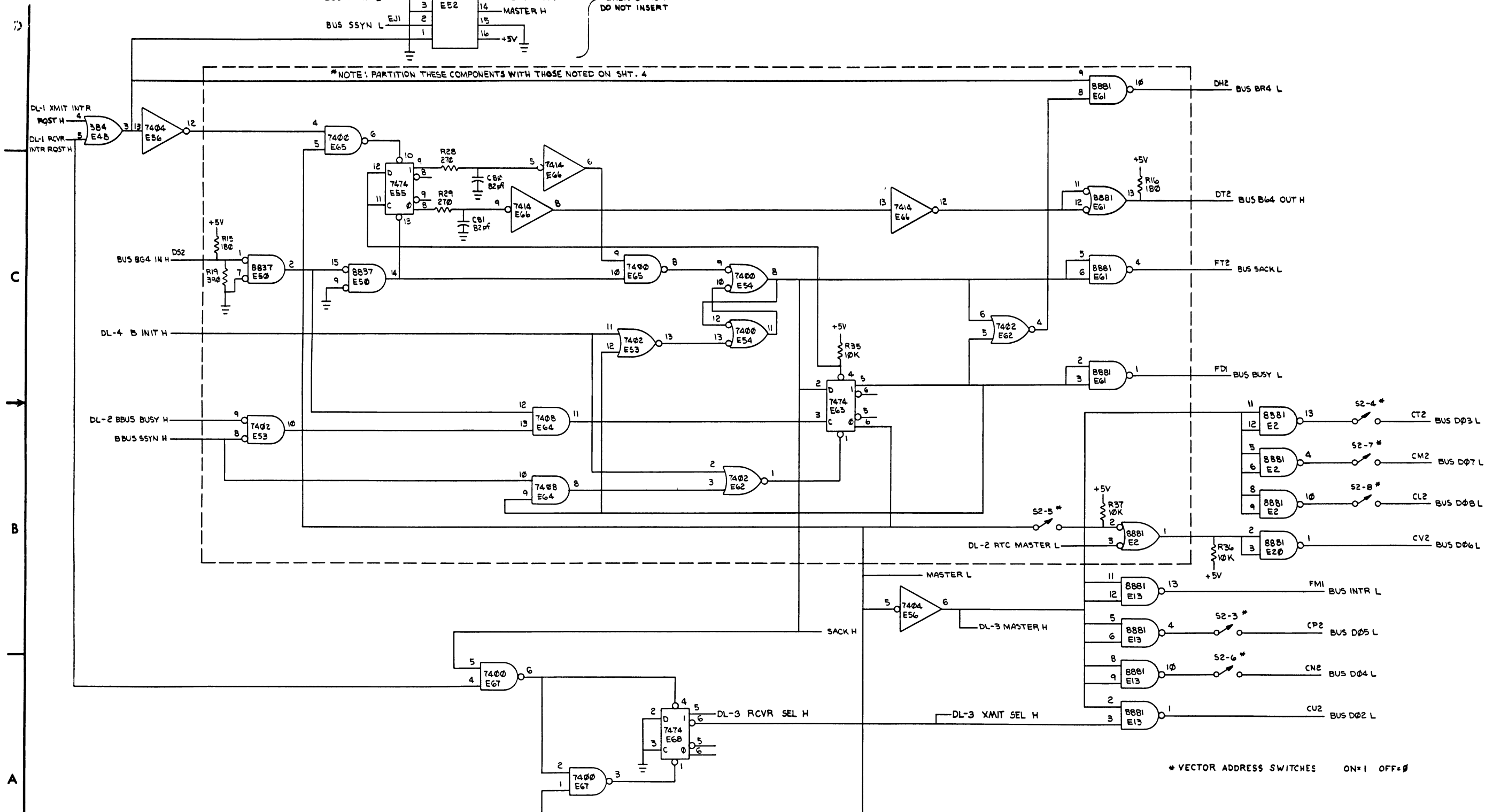


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BUS SACK L	FT2	7	9 DM2	BUS BR4 L
BUS B64 OUT H	DT2	6	10 FD1	BUS BUSY L
BUS B64 IN H	DS2	5	11	MASTER L
BUS NPR L	FJ1	4	12	SACK H
BUS SSYN L	EJ1	3	13	DL-4 B INIT H
		2	14	MASTER H
		1	15	
			16	+5V

ENGR OPTION
DO NOT INSERT

*NOTE: PARTITION THESE COMPONENTS WITH THOSE NOTED ON SHT. 4

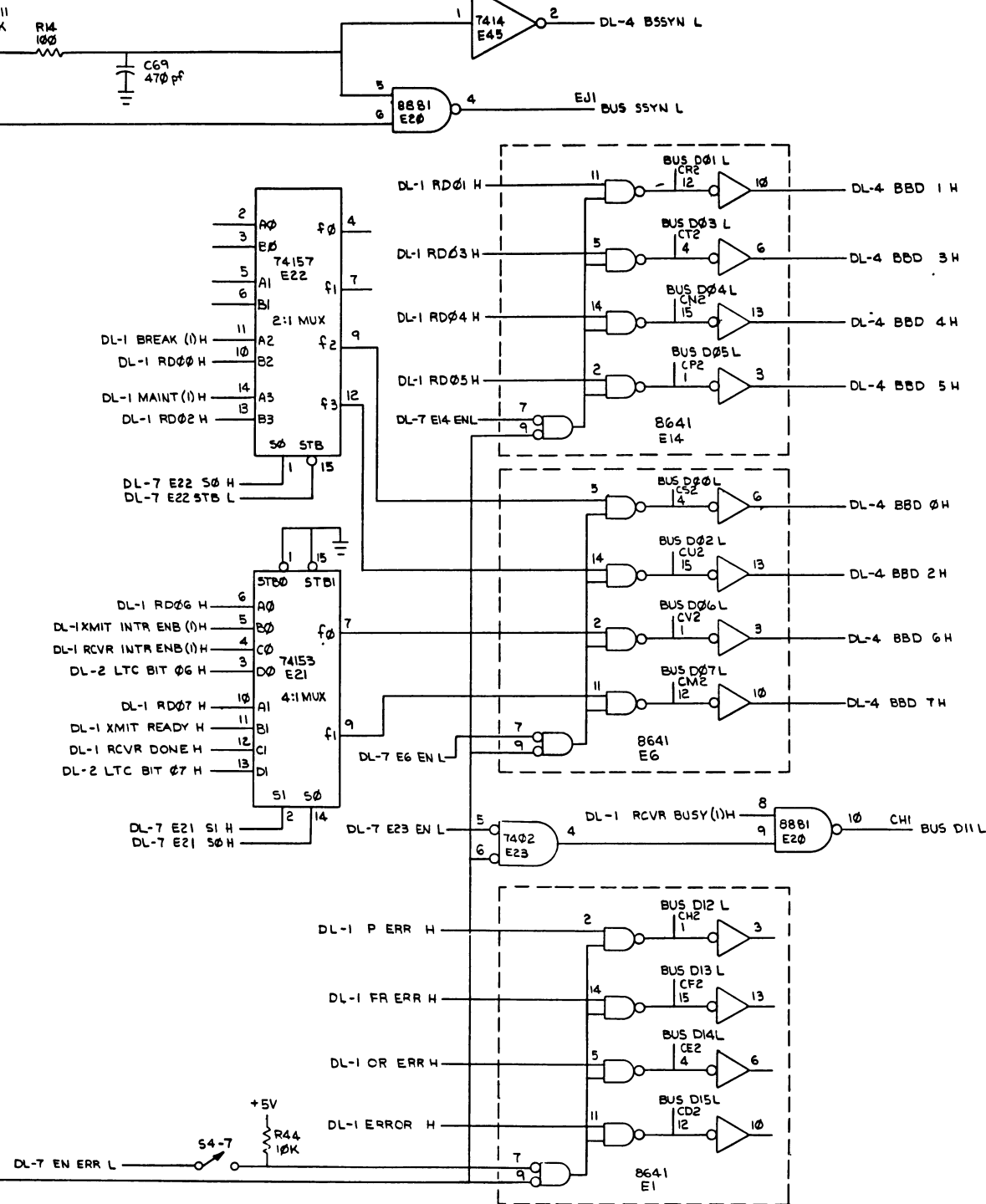
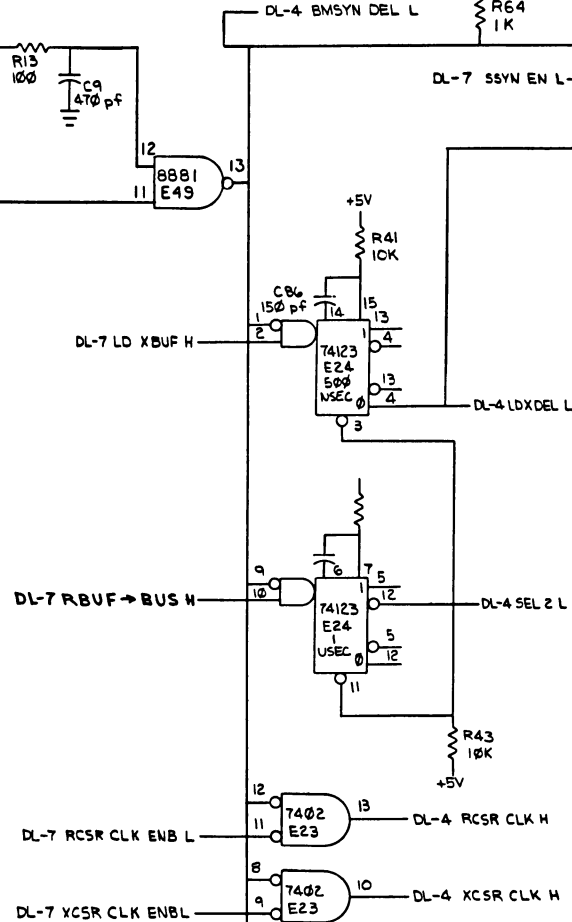
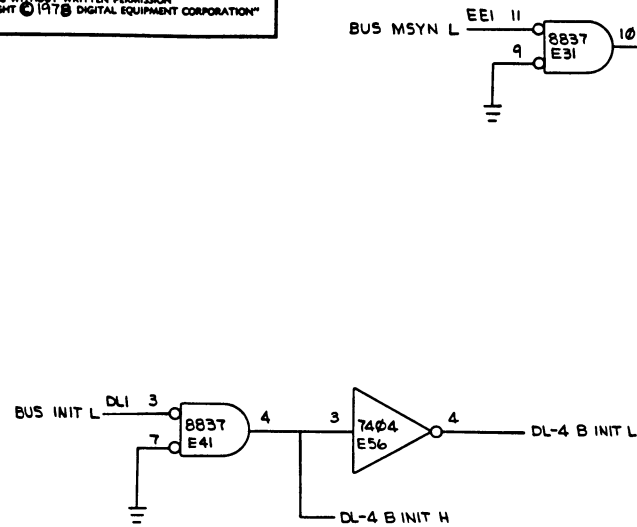


REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO
ORD 138

TITLE		SIZE CODE	NUMBER	REV.
SLU/RTC OPTION (DL-3)		D CS	M7856-0-1	H
SCALE	SHEET 4 OF 8	DIST.		

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REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO. 1191

TITLE
SLU/RTC OPTION (DL-4)

SIZE CODE
D CS

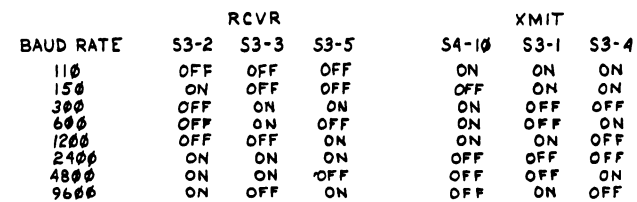
NUMBER
M7856-0-1

REV.
H

SCALE

SHEET 5 OF 8

DIST.



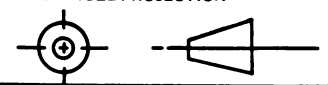
TITLE		SIZE/CODE		NUMBER		REV	
SLU/RTC OPTION (DL-6)		D CS		M7856-0-1		H	
SCALE $\frac{1}{4} = 1$		SHEET 7 OF 8		DIST			

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REV. 6-0-9582W KCS 2 1

(FOR 23094A1-A07 & 23095A1-A07)

REV.	CHANGE NO.	CHK

THIRD ANGLE PROJECTION  REMOVE BURRS AND BREAK SHARP CORNERS DO NOT SCALE DWG MATERIAL + + FINISH + +	QUANTITY & VARIATION	DESCRIPTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES <table><tr><th rowspan="2">ANGLES ±0° 30'</th><th rowspan="2">CLASS OF ACCURACY (CHECK ONE)</th><th colspan="6">NOMINAL DIMENSION RANGE INCHES</th></tr><tr><th>OVER 0 TO 0.2</th><th>OVER 0.2 TO 1.2</th><th>OVER 1.2 TO 4.0</th><th>OVER 4.0 TO 12.0</th><th>OVER 12.0 TO 40.0</th><th>OVER 40.0 TO 80.0</th></tr><tr><td rowspan="2">SURFACE QUALITY IN MICROINCHES</td><td>MEDIUM ☐</td><td>±.004</td><td>±.008</td><td>±.012</td><td>±.016</td><td>±.024</td><td>±.04</td></tr><tr><td>PREFERRED ☐</td><td>±.012</td><td>±.016</td><td>±.025</td><td>±.04</td><td>±.063</td><td>±0.1</td></tr></table> DRN. <i>J. L. Smith</i> 9-1-75 CHK'D <i>J. L. Smith</i> 9-1-75 ENG. <i>J. L. Smith</i> 9-1-75 PROJ. ENG. <i>K. L. Smith</i> 9-1-75 PROD. <i>L. A. Smith</i> 9-1-75 NEXT HIGHER ASSY. D-CS-M7856-0-1 SCALE + + SHEET 1 OF 3	ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES						OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0	SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1	FIRST USED ON DL11-W TITLE ROM LISTING <table><tr><th>SIZE</th><th>CODE</th><th>NUMBER</th><th>REV.</th></tr><tr><td>K</td><td>CS</td><td>M7856-0-9</td><td> </td></tr></table> DIST.	SIZE	CODE	NUMBER	REV.	K	CS	M7856-0-9	
	ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)			NOMINAL DIMENSION RANGE INCHES																																			
			OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0																																
	SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04																																
PREFERRED ☐		±.012	±.016	±.025	±.04	±.063	±0.1																																	
SIZE	CODE	NUMBER	REV.																																					
K	CS	M7856-0-9																																						

1
DEC PART NUMB: 23094A1-A07
ORIGINATOR: BOB PRATT
DATE OF ORIGIN: 2/28/75

ROM PATTERN SPEC

PAGE 2 OF 3

DECIMAL LOC	OCTAL LOC	BINARY DATA	OCTAL DATA
0	00	00111100	074
1	01	00111100	074
2	02	00111100	074
3	03	00111100	074
4	04	00111100	074
5	05	00111100	074
6	06	00111100	074
7	07	00111100	074
8	10	00111100	074
9	11	00111100	074
10	12	00111100	074
11	13	00111100	074
12	14	00001100	014
13	15	00111100	074
14	16	00011100	034
15	17	00111100	074
16	20	00011000	030
17	21	00111100	074
18	22	00011100	034
19	23	00111100	074
20	24	00010100	024
21	25	00111100	074
22	26	00011100	034
23	27	00111100	074
24	30	00011100	034
25	31	00111100	074
26	32	00011110	036
27	33	00111100	074
28	34	00011101	035
29	35	00111100	074
30	36	00011100	034
31	37	00111100	074

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DEC PART NUMB: 23-095A1-A07
ORIGINATOR: BOB PRATT
DATE OF ORIGIN: 2/28/75

ROM PATTERN SPEC

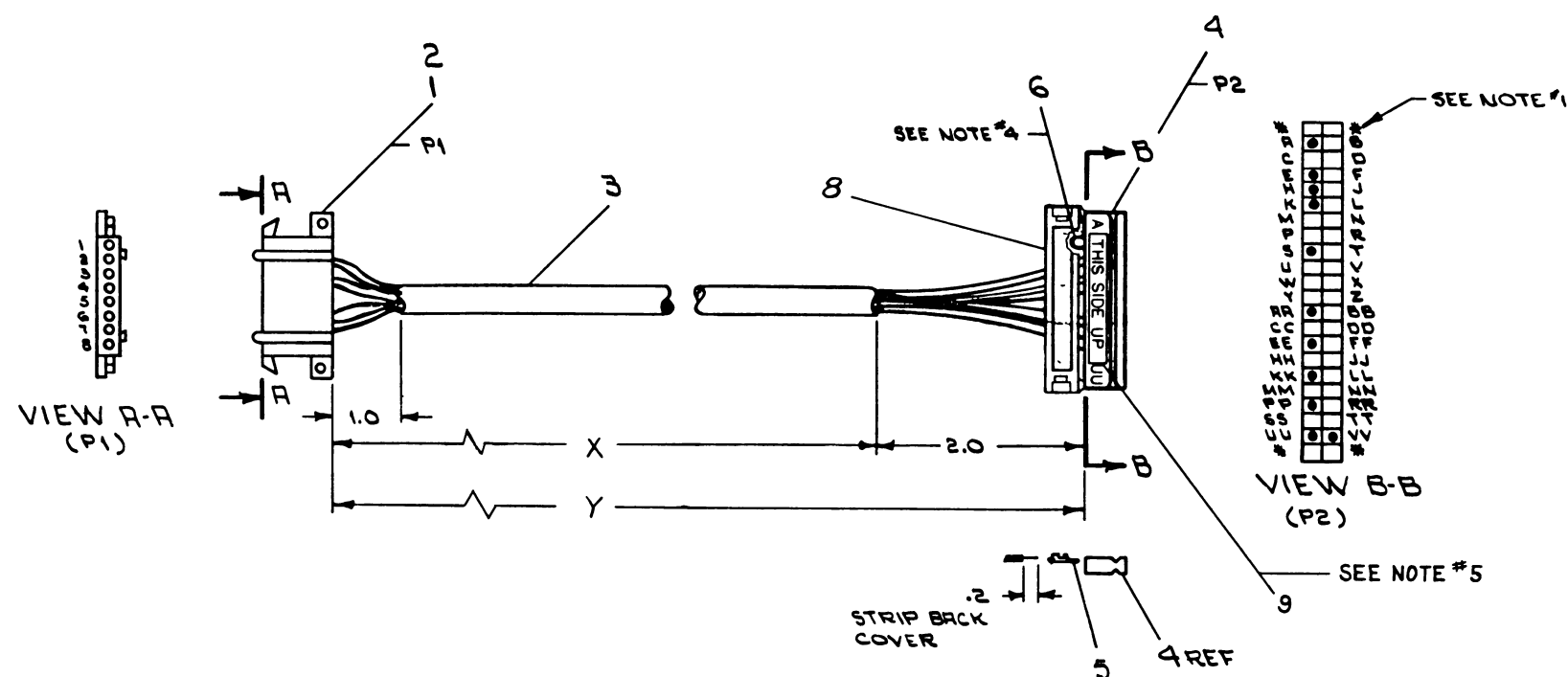
PAGE 3 OF 3

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3	03	11111111	377
4	04	11111111	377
5	05	11111111	377
6	06	11111111	377
7	07	11111111	377
8	10	11111111	377
9	11	11111111	377
10	12	11111111	377
11	13	11111111	377
12	14	11011111	337
13	15	11111111	377
14	16	11111111	377
15	17	11111111	377
16	20	10001111	217
17	21	11111111	377
18	22	11111111	377
19	23	11111111	377
20	24	11010001	321
21	25	11111111	377
22	26	11111111	377
23	27	11111111	377
24	30	01000010	102
25	31	11111111	377
26	32	11111111	377
27	33	11111111	377
28	34	11111111	377
29	35	11111111	377
30	36	11111111	377
31	37	11111111	377

WIRE TABLE							
ITEM NO.	DESCRIPTION		PAIR NO.	FROM		TO	
	AWG	COLOR		CONNECTION	WITH	CONNECTION	WITH
3	22	BLK	1	P1-2	2	P2-KK	5
3		RED		P1-3	2	P2-S	
3,7		SHIELD		SEE NOTE #2	—	P2-R(NOTE #3)	
3		BLK	2	P1-4	2	P2-EE	
3		WHT		P1-5	2	P2-RR	
3,7		SHIELD		SEE NOTE #2	—	P2-UU(NOTE #3)	
3		BLK	3	P1-6	2	P2-PP	
3		GRN		P1-7	2	P2-K	
3,7		SHIELD		SEE NOTE #2	—	P2-VV(NOTE #3)	
6	22	BLK	—	P2-E	3	P2-H	5

LEGEND		
VARIATION	LENGTH	
	X	Y
7008360-0	25IN±10	27IN±10
7008360-1	46IN±10	48IN±10
7008360-9	9FT±2IN	9FT 2IN ± 2IN

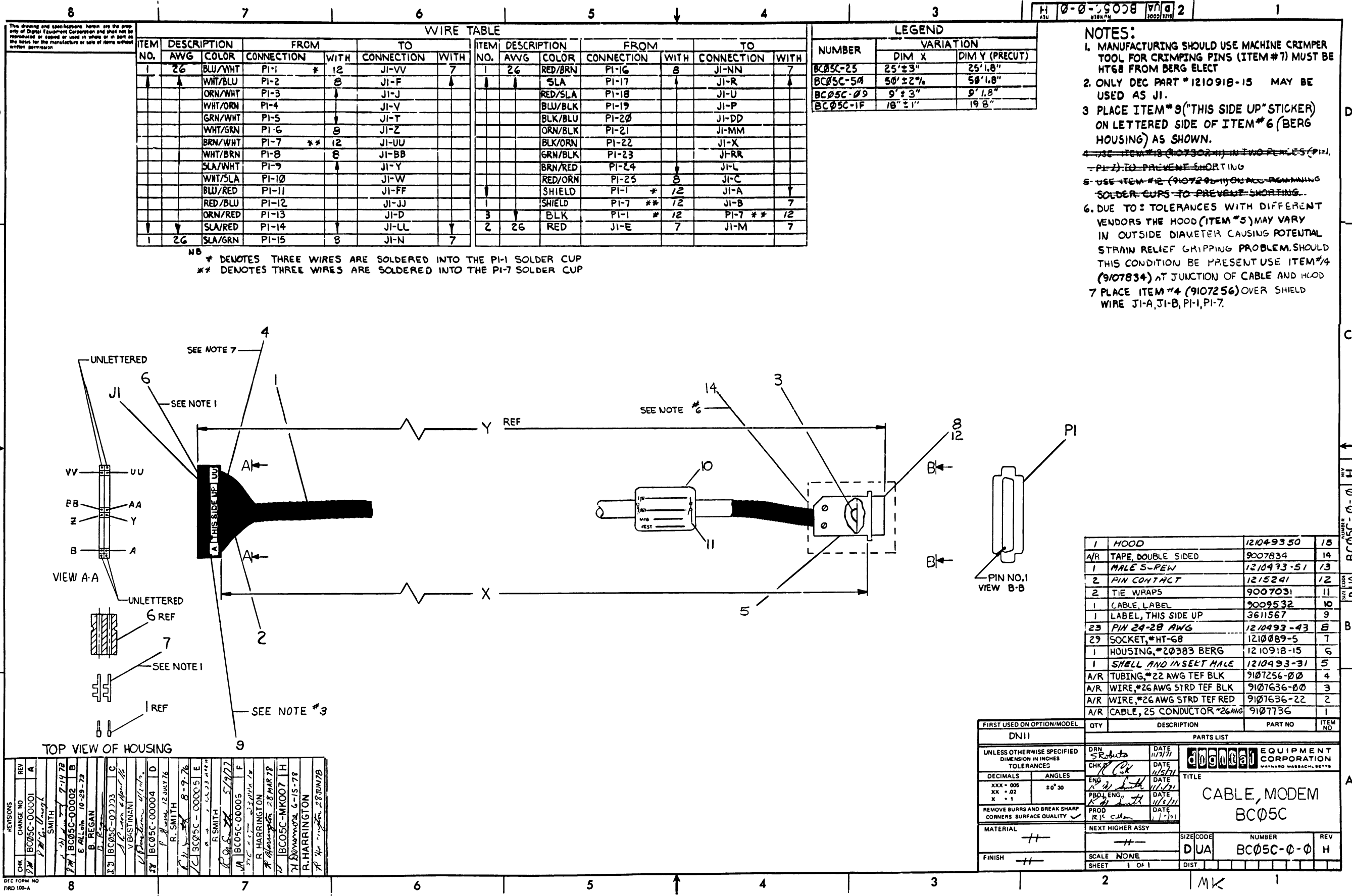
- # NOTES:
1. * ASTERISKS INDICATE CAVITIES NOT USED OR DESIGNATED BY LETTERS.
 2. DRAIN WIRES TO BE CUT BACK TO OUTER INSULATION ON P1 END OF CABLE ONLY. SHIELDS TO BE CUT BACK TO OUTER INSULATION ON BOTH ENDS OF CABLES.
 3. DRAIN WIRES ON P2 END OF CABLE TO BE EACH ENCLOSED WITH ITEM*7 (TUBING) FROM END OF CABLE JACKET TO POINT WHERE THEY ENTER P2 CONNECTOR.
 4. ITEM*6(WIRE) TO BE APPROXIMATELY ONE(1) INCH LONG.
 5. PLACE ITEM*9("THIS SIDE UP" STICKER) ON LETTERED SIDE OF ITEM*4 (BERG HOUSING) AS SHOWN.



1	LABEL, THIS SIDE UP	3611567	9
1	STRAIN RELIEF	1211166	8
R/R	TUB, #18 TEF. THINWALL NAT	9107278-11	7
R/R	WIRE, #22 AWG STRO TEF BLK	9107350-00	6
11	SOCKET, CRIMP # 47216	1210089-07	5
1	HOUSING, BERG # 65043-D15	1210918-15	4
R/R	CABLE, BELDEN #8777-3PR SHLD	9107723-0	3
6	CONTACT MATE-N-LOCK (FEMALE)	1209379-03	2
1	CONN. MATE-N-LOCK (FEMALE)	1209340-00	1
QTY	DESCRIPTION	PART NO	ITEM NO

FIRST USED ON OPTION/MODEL PDP-8E	DO NOT SCALE DRAWING		DRN. <i>7-1-71</i>	DATE <i>7/1/71</i>	digital CORPORATION MAYNARD MASSACHUSETTS
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	 ANGLES $\pm 0^\circ 30'$ FINAL SURFACE QUALITY REMOVE BURRS AND SHARP CORNERS	CHG. D. <i>7-1-71</i> DATE <i>7-8-71</i> ENG. <i>7-1-71</i> DATE <i>7-4-71</i> PROJ. ENG. <i>7-1-71</i> DATE <i>7-1-71</i> PROD. <i>7-1-71</i> DATE <i>7-1-71</i>	TITLE CABLE ASSEMBLY (KL8E)	
	MATERIAL SEE PARTS LIST		NEXT HIGHER ASSY A ML-KLB-E-0	SIZE CODE	NUMBER
	FINISH		SCALE NONE	DIA 7008360-0-0	REV H
			SHEET OF	DRGT	

REVISIONS		
CHK	CHANGE NO	REV
1	SE-00003	A
2	10/21/71	
3	HC 041A14	
4		
5	KLBE-00006	B
6	10/21/71	
7	E. CLARK	
8	10/21/71	
9	7008360-00001	C
10	ALL 219	10-29-73
11	B REGAN	
12	7008360-00002	D
13	REGAN	
14	10/21/71	
15	10/21/71	
16	10/21/71	
17	10/21/71	
18	10/21/71	
19	10/21/71	
20	10/21/71	
21	10/21/71	
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95	10/21/71	
96	10/21/71	
97	10/21/71	
98	10/21/71	
99	10/21/71	
100	10/21/71	



WIRE TABLE											
ITEM NO.	AWG	COLOR	FROM		TO		ITEM NO.	AWG	COLOR	FROM	
			CONNECTION	WITH	CONNECTION	WITH				CONNECTION	WITH
1	26	BLU/WHT	PI-1	*	JI-VV	7	1	26	RED/BRN	PI-16	8
		WHT/BLU	PI-2		JI-F				SLA	PI-17	
		ORN/WHT	PI-3		JI-J				RED/SLA	PI-18	
		WHT/ORN	PI-4		JI-V				BLU/BLK	PI-19	
		GRN/WHT	PI-5		JI-T				BLK/BLU	PI-20	
		WHT/GRN	PI-6		JI-Z				ORN/BLK	PI-21	
		BRN/WHT	PI-7	**	JI-UU				BLK/ORN	PI-22	
		WHT/BRN	PI-8		JI-BB				GRN/BLK	PI-23	
		SLA/WHT	PI-9		JI-Y				BRN/RED	PI-24	
		WHT/SLA	PI-10		JI-W				RED/ORN	PI-25	
		BLU/RED	PI-11		JI-FF				SHIELD	PI-1	*
		RED/BLU	PI-12		JI-JJ		1		SHIELD	PI-7	**
		ORN/RED	PI-13		JI-D		3		BLK	PI-1	*
		SLA/RED	PI-14		JI-LL		2	26	RED	JI-E	7
1	26	SLA/GRN	PI-15		JI-N	7					

LEGEND		
NUMBER	VARIATION	
	DIM X	DIM Y (PRECUT)
BC05C-25	25'±3"	25'1.8"
BC05C-50	50'±2%	50'1.8"
BC05C-09	9'±3"	9'1.8"
BC05C-1F	18'±1"	19.5"

- NOTES:
- MANUFACTURING SHOULD USE MACHINE CRIMPER TOOL FOR CRIMPING PINS (ITEM #7) MUST BE HT68 FROM BERG ELECT
 - ONLY DEC PART #1210918-15 MAY BE USED AS J1.
 - PLACE ITEM #9 ("THIS SIDE UP" STICKER) ON LETTERED SIDE OF ITEM #6 (BERG HOUSING) AS SHOWN.
 - USE ITEM #12 (9107256) IN TWO PLACES (PI-1, PI-7) TO PREVENT SHORTING
 - USE ITEM #12 (9107256) ON ALL REMAINING SOLDER CUPS TO PREVENT SHORTING.
 - DUE TO ± TOLERANCES WITH DIFFERENT VENDORS THE HOOD (ITEM #5) MAY VARY IN OUTSIDE DIAMETER CAUSING POTENTIAL STRAIN RELIEF GRIPPING PROBLEM. SHOULD THIS CONDITION BE PRESENT USE ITEM #4 (9107834) AT JUNCTION OF CABLE AND HOOD
 - PLACE ITEM #4 (9107256) OVER SHIELD WIRE J1-A, J1-B, PI-1, PI-7.

1	HOOD	121049350	15
A/R	TAPE, DOUBLE SIDED	9007834	14
1	MALE S-REW	121049351	13
2	PIN CONTACT	1215241	12
2	TIE WRAPS	9007031	11
1	CABLE LABEL	9009532	10
1	LABEL, THIS SIDE UP	3611567	9
23	PIN 24-28 AWG	121049343	8
29	SOCKET, HT-68	12100895	7
1	HOUSING, #20383 BERG	1210918-15	6
1	SHELL AND INSECT MALE	121049331	5
A/R	TUBING, #22 AWG TEF BLK	9107256-00	4
A/R	WIRE, #26 AWG STRD TEF BLK	9107636-00	3
A/R	WIRE, #26 AWG STRD TEF RED	9107636-22	2
A/R	CABLE, 25 CONDUCTOR #26 AWG	9107736	1

FIRST USED ON OPTION/MODEL		QTY		DESCRIPTION		PART NO		ITEM NO	
DN11									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN 5/10/71		DATE 11/1/71		EQUIPMENT CORPORATION		WATNARD WARRACH, BETTE	
DECIMALS		CHK 1/1/71		DATE 11/5/71		TITLE			
ANGLES		ENG 1/1/71		DATE 11/1/71		CABLE, MODEM			
XXX - 006		PROJ. ENG. 1/1/71		DATE 11/5/71		BC05C			
XX - 02		PROO 1/1/71		DATE 11/1/71					
X - 1									
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		MATERIAL		NEXT HIGHER ASSY		SIZE CODE		NUMBER	
		FINISH		SCALE NONE		DUA		BC05C-0-0	
				SHEET 1 OF 1		DIST		REV H	

REVISIONS		REV		DATE	
CHK	CHANGE NO	REV	DATE	CHK	DATE
1/1	BC05C-00001	A	1/1/71	1/1	1/1/71
1/1	BC05C-00002	B	1/1/71	1/1	1/1/71
1/1	BC05C-00003	C	1/1/71	1/1	1/1/71
1/1	BC05C-00004	D	1/1/71	1/1	1/1/71
1/1	BC05C-00005	E	1/1/71	1/1	1/1/71
1/1	BC05C-00006	F	1/1/71	1/1	1/1/71
1/1	BC05C-00007	G	1/1/71	1/1	1/1/71
1/1	BC05C-00008	H	1/1/71	1/1	1/1/71
1/1	BC05C-00009	I	1/1/71	1/1	1/1/71
1/1	BC05C-00010	J	1/1/71	1/1	1/1/71

8

7

6

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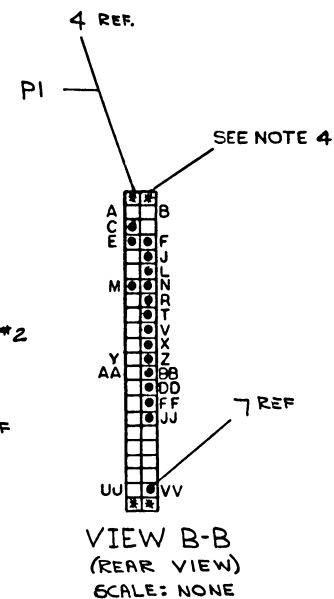
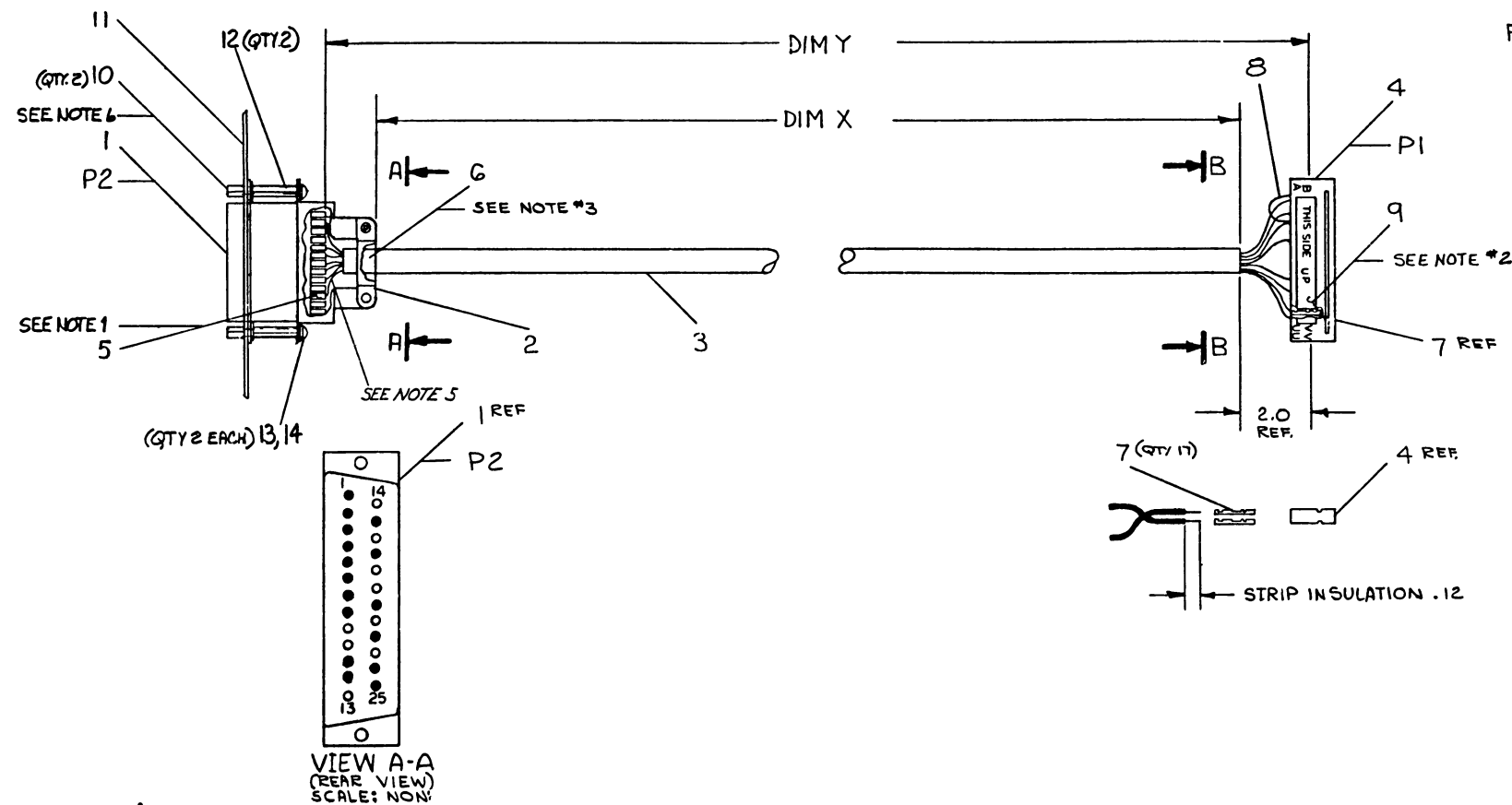
WIRE TABLE

ITEM	DESCRIPTION		FROM		TO	
NO	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH
3	22	BLK	PI-VV	7	P2-7	SOLDER
↑	↑	GRN/WHI	PI-C	↑	P2-25	↑
		GRN/BLK	PI-JJ		P2-12	
		ORN/BLK	PI-FF		P2-11	
		RED	PI-DD		P2-20	
		GRN	PI-BB		P2-8	
		BLU/WHI	PI-Z		P2-6	
		ORN	PI-X		P2-22	
		BLU	PI-V		P2-4	
		WHI	PI-T		P2-5	
		BLU/BLK	PI-R		P2-17	
		BLK/WHI	PI-N		P2-15	
		RED/WHI	PI-L		P2-24	
↓		WHI/BLK	PI-J		P2-3	
3		RED/BLK	PI-F	↑	P2-2	SOLDER
8		BLK	PI-E	7	PI-M	7
8	22	BLK	P2-1	SOLDER	P2-7	SOLDER

LEGEND		
NUMBER	VARIATION	
	DIM "X"	DIM "Y" PRECUT
BCØ3L-1Ø	1ØFT ± 2IN	1ØFT, 5IN
BCØ3L-5	5FT ± 2IN	5FT, 5IN
BCØ3L-1K	1FT 9IN ± 1IN	2FT
BCØ3L-Ø1	1FT ± 1IN	1FT, 3IN

NOTES

- 1 EACH SOLDERED CONN ON P2 SHALL BE INSULATED WITH A .25 PIECE OF SHRINK TUBING (ITEM*5)
2. PLACE ITEM*9 (THIS SIDE UP STICKER) ON LETTERED SIDE OF ITEM*4 (CONN HOUSING) AS SHOWN.
- 3 FOR STRAIN RELIEF WRAP 2 TURNS OF TAPE (ITEM *6) AROUND CABLE (ITEM*3) AS SHOWN.
4. PINS MARKED * IN VIEW B-B ARE NOT USEABLE
5. WIRES COMING FROM CENTER OF PLUG CONN SHOULD BE 5/8 "LG., ALL OTHERS SHOULD BE CONFINED INTO HOOD OF CONN. SO THAT THEY'RE NOT BUNCHED.
6. PLACE LOCKWASHER (SUPPLIED WITH ITEM*10) BETWEEN SPACER AND CONNECTOR FLANGE. DISCARD NUT (QTY.2) SUPPLIED WITH ITEM*10.



2	WASHER, LOCK #4	9006688	14
2	SCR, PHL PAN HD #4-40 X .25	9008301-1	13
2	SPACER, THREADED, HEX	9008833	12
1	PLATE, CONN. MTG.	B-MD-7414072-00	11
2	SCREW LOCK ASSY	9008451-00	10
1	LABEL (THIS SIDE UP)	3611567	9
3 IN	WIRE, STRANDED #22AWG IPVC (BLK)	9107350-00	8
17	SOCKET, CRIMP	1210089-07	7
A/R	TAPE, DOUBLE SIDED .50 W D	9007834	6
16	TUBING, HEAT SHRINK .12	9107255-09	5
1	CONN, 44 POS, HSG.	1210918-15	4
A/R	CABLE, 15 COND, 22AWG.	9107672-00	3
1	HOOD, CONN.	1212516-00	2
1	CONNECTOR, PLUG, FILTERED	1214031-00	1

DESCRIPTION				DWG/PART NO				ITEM NO			
UNLESS OTHERWISE SPECIFIED DIMENSION" ART IN INCHES											
ANGLES 45° 30°		CLASS OF ACCURACY		NOMINAL L				INS. RANGE INCHES			
SURFACE QUALITY		IN (CHECK ONE)		OVER 0	OVER 0	OVER 0	OVER 0	OVER 0	OVER 0	OVER 0	OVER 0
				0	0	0	0	0	0	0	0
MICROINCHES		MEDIUM PREFERRED		± .004	± .008	± .012	± .018	± .024	± .04	± .06	± .1
				± .012	± .018	± .025	± .04	± .063	± .1		
DETAILS				FIRST USED ON				DATE			
CHKD				TITLE				FILTERED			
ENG				CABLE ASSY				BC03L			
PROV				BC03L-0 0				F			
PROQ				DIST				F			
NEXT HIGHER ASSY.				SIZE				NUMBER			
SCALE				CODE				REV.			
SHEET				OF				F			

[illegible]

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ENGINEERING SPECIFICATION										CONTINUATION SHEET																																														
TITLE DL11-W Installation Procedure																																																								
<u>DL11-W Installation Procedure</u> Installation of the M7856 module consists of the following preparations: 1) Switch selection of the address mode and register addresses. 2) Switch selection of vector address. 3) Switch selection of data format. 4) Switch selection of receiver and transmitter baud rates. 5) Switch selection of operation mode for the current loops. 6) Additional switch selections for compatability. 7) Installation of G8000 in systems where +15V is not available. NOTE: The notation used to indicate a particular switch is as follows: SX-Y where X denotes the particular switch pack and Y denotes the individual switch in the pack. The switch pack is labeled on the P. C. board with an SX(ieS2) and the individual switches are labeled on the switch pack as are the on-off positions. A. <u>Register Address Assignments:</u> The DL11-W can respond to addresses with the following format: <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="border: none; text-align: right; padding-right: 5px;">17</td> <td style="border: none; text-align: right; padding-right: 5px;">16</td> <td style="border: none; text-align: right; padding-right: 5px;">15</td> <td style="border: none; text-align: right; padding-right: 5px;">14</td> <td style="border: none; text-align: right; padding-right: 5px;">13</td> <td style="border: none; text-align: right; padding-right: 5px;">12</td> <td style="border: none; text-align: right; padding-right: 5px;">11</td> <td style="border: none; text-align: right; padding-right: 5px;">10</td> <td style="border: none; text-align: right; padding-right: 5px;">9</td> <td style="border: none; text-align: right; padding-right: 5px;">8</td> <td style="border: none; text-align: right; padding-right: 5px;">7</td> <td style="border: none; text-align: right; padding-right: 5px;">6</td> <td style="border: none; text-align: right; padding-right: 5px;">5</td> <td style="border: none; text-align: right; padding-right: 5px;">4</td> <td style="border: none; text-align: right; padding-right: 5px;">3</td> <td style="border: none; text-align: right; padding-right: 5px;">2</td> <td style="border: none; text-align: right; padding-right: 5px;">1</td> <td style="border: none; text-align: right; padding-right: 5px;">0</td> </tr> <tr> <td style="border: 1px solid black; text-align: center; width: 30px;">1</td> <td style="border: 1px solid black; text-align: center; width: 30px;">1</td> <td style="border: 1px solid black; text-align: center; width: 30px;">1</td> <td style="border: 1px solid black; text-align: center; width: 30px;">1</td> <td style="border: 1px solid black; text-align: center; width: 30px;">1</td> <td style="border: 1px solid black; text-align: center; width: 30px;">1</td> <td style="border: 1px solid black; text-align: center; width: 30px;">1</td> <td colspan="10" style="border: 1px solid black; text-align: center; padding: 5px;">SWITCHES</td> <td style="border: 1px solid black; width: 30px;"></td> <td style="border: 1px solid black; width: 30px;"></td> </tr> </table> Selects 1 of 4 ————— Registers Byte Control ————— The DL11-W can be operated in one of three different address selection modes. Normally, a DL11-W used as console terminal control would operate in the first mode, whereas additional DL11-W's would be operated in the second mode. The third mode is not normally used, but is included here for completeness.																				17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	1	1	1	1	1	1	1	SWITCHES											
17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																																							
1	1	1	1	1	1	1	SWITCHES																																																	
										SIZE A		CODE SP		NUMBER DL11-W-2				REV A																																						

ENGINEERING SPECIFICATION					CONTINUATION SHEET					
TITLE DL11-W Installation Procedure										
Mode 1: Both the serial line unit and the real-time clock sections can be addressed. Due to common address selection logic, operation in this mode requires that the serial line unit addresses be restricted to 77756X. The line clock address is 777546. Mode 2: Only the serial line unit section can be addressed. Address selection ranges from 74000 to 77777. Line clock is disabled and does not respond to address 777546. Mode 3: Only the line clock section can be addressed at 777546. The serial line unit section does not respond to any address.										
<u>ADDRESS AND MODE SELECTION</u>										
Address Bit	A10	A09	A08	A07	A06	A05	A04	A03	N/A	N/A
Switch	S5-3	S5-2	S5-1	S5-4	S5-5	S5-6	S5-8	S5-7	S5-9	S5-10
Mode 1	Off	Off	Off	On	Off	Off	Off	On	Off	On
Mode 2*	Off	Off	Off	On	Off	Off	Off	On	On	Off
Mode 3	Off	Off	Off	On	Off	Off	On	On	On	On
*Address 77756X selected for serial line interface. Other addresses may be selected using SWITCH-OFF = 1 and SWITCH-ON = 0.										
Note: Remove R63 from DL11-W's operated in Mode 2 to allow proper operation of a line frequency clock or DL11-W operated in Mode 1 or Mode 3.										
Address assignments for serial lines are normally made in the ranges from 77650X to 77667X and from 77561X to 77617X.										
B. <u>Vector Address Assignments:</u>										
The line clock, if enabled, has a fixed vector address of 100 and cannot be changed. The serial line assignments are to floating vectors produced in the form XX0 (Receiver) and XX4 (Transmitter) where XX ranges from 00 to 77.										
For a DL11-W used as the console device, the vector is 060/064. Additional DL11-W's vector addresses are floating.										
					SIZE A	CODE SP	NUMBER DL11-W-2		REV A	

ENGINEERING SPECIFICATION					1 of 1 CONTINUATION SHEET			
TITLE DL11-W Installation Procedure								
V8	V7	V6	V5	V4	V3	V2	V1	V0
					0/1	0	0	
Switch Selectable for Serial Line								
Vector Bit	V8	V7	V6	V5	V4	V3		
Switch	S2-8	S2-7	S2-5	S2-3	S2-6	S2-4		
060/064	Off	Off	Off	On	On	Off		
On = 1, Off = 0								
C. <u>Selection of Data Format:</u>								
1. Data Bits								
Switches S4-3 and S4-4 control the number of data bits in the serial character as follows:								
<u>S4-4</u>	<u>S4-3</u>	<u># of Data Bits</u>						
On	On	5						
On	Off	6						
Off	On	7						
Off	Off	8						
2. Parity								
Parity is controlled by switches S4-2 and S4-6 as follows:								
<u>S4-2</u>	<u>S4-6</u>	<u>Parity</u>						
Off	Off	Off						
On	Off	Off						
Off	On	Even						
On	On	Odd						
3. Stop Bits								
Switch S4-5 controls the number of stop bits selected in the serial character as follows:								
					SIZE A	CODE SP	NUMBER DL11-W-2	REV A

ENGINEERING SPECIFICATION

DL11-W

CONTINUATION SHEET

TITLE

DL11-W Installation Procedure

S4-5

of Stop Bits

On1

Off2 (or 1.5 if 5 data bits are selected)

D. Baud Rate Selection:

Receiver and Transmitter baud rates are independent, so any combination may be selected.

Baud Rate Switch Selections

Baud Rate	Receiver			Transmitter		
	S3-2	S3-3	S3-5	S4-10	S3-1	S3-4
110	Off	Off	Off	On	On	On
150	On	Off	Off	Off	On	On
300	Off	On	On	On	Off	Off
600	Off	On	Off	On	Off	On
1200	Off	Off	On	On	On	Off
2400	On	On	On	Off	Off	Off
4800	On	On	Off	Off	Off	On
9600	On	Off	On	Off	On	Off

E. Current Loop Operation Mode:

Normally, current loops should be in active mode, unless interfaced to another active loop, such as to another DL11.

Active - Passive Mode Selection

Transmitter	S1-1	S1-2	S1-3	S1-6	S1-7
Active	On	On	Off	Off	On
Passive	Off	Off	On	On	Off
Receiver	S3-6	S3-7	S3-8	S3-9	S3-10
Active	On	Off	On	Off	On
Passive	Off	On	Off	On	Off
Reader Enable	S1-4	S1-5	S1-8	S1-9	S1-10
Active	On	Off	On	Off	On
Passive	Off	On	Off	On	Off

SIZE

A

CODE

SP

NUMBER

DL11-W-2

REV

A

DEC FORM NO

DEC 16-(381)-1022-N370

DRA 108

SHEET

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ENGINEERING SPECIFICATION

DL11-W

CONTINUATION SHEET

TITLE

DL11-W Installation Procedure

F. Compatability Selection:

Switches S4-1 and S4-7 allow the DL11-W to be configured to replace DL11-A, B, C, and D options in most applications.

DL11-W Compatability Switches

Selectable	Switch	Description
Break Bit	S4-1	Enabled in the ON position. Should be disabled (switch OFF) if replacing a DL11-A, or DL11-B should be enabled (switch ON) if replacing a DL11-C or DL11-D.
Error Bits	S4-7	Error bit reporting is enabled in the ON position. Should be disabled if replacing DL11-A or DL11-B, and should be enabled if replacing DL11-C or DL11-D.

Note: Both EIA level and current loop signals are available at the berg connector on the module. No selection is necessary. The proper cable will pick up the correct signals.

G. G8000 Installation:

For DL11-W EIA operation, a positive voltage is required between 9 and 15 volts to operate the EIA drivers. For PDP-11/20 and PDP-11/15 systems with the H720 power supply, a G8000 module must be installed to provide this voltage. Using a filter network, this module converts the full-wave rectified "+8V" signal to a positive DC voltage.

1. Install G8000 into slot A02 or DD11-A.

2. Wire A03V2 to A02V2.

3. Wire A02N2 to CXXU1 where XX is the slot location of the M7856.

SIZE

A

CODE

SP

NUMBER

DL11-W-2

REV

A

DEC FORM NO

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DRA 108

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TITLE

DL11-W Installation Procedure

H. DL11-W Systems with +15V Available Using DD11-A

There is a special situation of using a DD11-A to mount a DL11-W in systems with +15V available. These systems have +15V available, and it appears at pin A03V2 of the DD11-A when using power harness such as 7009177, 7008855, or 7008909. In this situation, no G8000 is necessary, and +15V can be wired directly from A03V2 to CXXU1, where XX is the slot number of the DL11.

I. When using the DL11-W in an 11/05 processor pin CXXU1 has +15V available on it so no G8000 or no jumpers are required.

J. INSTALLATION

The DL11-W module plugs into an SPC slot. A wire must be installed to pick up the LTC L signal from the power supply and apply it to the line frequency input of the DL11-W.

When installed, the LTC L input to the DL11-W is located on pin CD1. Connect a length of 30 AWG wire from pin CD1 on the backplane to the pin on the backplane, as designated in Table 1-1, for each application.

Table 1-1 LTC L Connection

PDP Computer	Processor	Pin Number
11/04	KD11-D (4 slot)	C02D1,C03D1,C04D1
11/04	KD11-D (9 slot)	C02D1,C03D1,C04D1,C05D1,C06D1,C07D1,C08D1, or C09D1
11/05	KAll-A w/8K memory	C01D1,C02D1,C03D1,C04D1, or F08V2
11/05	KD11-A w/16K memory	C01D1 or F08V2
11/20	KAll	A13P2 or B12R1
11/34	KD11-E	C03D1,C04D1,C05D1,C06D1,C07D1,C08D1, or C09D1
11/35	KD11-A	F03R1 or C09D1
11/40	KD11-A	F03R1 or C09D1
11/45	KB11-A	C26D1,C27D1, or C28D1
11/55	KB11-D	C26D1,C27D1, or C28D1
11/70	KB11-B	C40D1,C41D1,C42D1,C43D1, or C44D1
11/70	KB11-C	C40D1, C41D1,C42D1,C43D1, or C44D1
DD11-B Peripheral Mounting Panel		C01D1,C02D1,C03D1, or C04D1
DD11-D Peripheral Mounting Panel		C01D1,C02D1,C03D1,C04D1,C05D1,C06D1,C07D1,C08D1,C09D1
DD11-A Peripheral Mounting Panel		A03P2

NOTE: A wire connection is not necessary for backplane pin numbers ending in D1. LTC L is already connected to the line frequency input of the DL11-W.

SIZE

A

CODE

SP

NUMBER

DL11-W-2

REV

A

DEC FORM NO

EN-01022-16-N370-(381)

DRA 108

SHEET

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8

ENGINEERING SPECIFICATION

DL11-W

CONTINUATION SHEET

TITLE

DL11-W Installation Procedure

K. Installation

The DL11-W module plugs into an SPC slot. A wire must be installed to pick up the DCLOL signal from the power supply and apply it to the DCLOL input of the DL11-W.

When installed, the DCLOL input to the DL11-W is located on pin CN1. Connect a length of 30 AWG wire from pin CN1 on the backplane to the pin on the backplane, as designated in Table 1-2 for each application.

Table 1-2 DCLOL Connection

PDP Computer	Processor	Pin Number
11/04*	KD11-D (4 slot)	C03N1, C04N1
11/04*	KD11-D (9 slot)	C03N1 thru C09N1
11/05*	KAll-A w/8K Memory	C01N1, C02N1, C03N1, C04N1
11/05*	KD11-A w/16K Memory	C01N1
11/20	KAll	B11F2, B14F2, A13S2, A08S2, A03.2, B04D2, F06B2
11/34*	KD11-E	C03N1 thru C09N1
11/35	KD11-A	B09F2
11/40	KD11-A	B09F2
11/45*	KB11-A	C26N1, C26N1, C28N1
11/55*	KB11-D	C26N1, C26N1, C28N1
11/70*	KB11-B	C40N1, C41N1, C42N1, C43N1, C44N1
11/70*	KB11-C	C40N1, C41N1, C42N1, C43N1, C44N1
DD11-B Peripheral Mounting Panel		C01N1 thru C04N1
DD11-D Peripheral Mounting Panel		C01N1 thru C09N1
DD11-A Peripheral Mounting Panel		B01F2, B04F2, A03S2

*NOTE: A wire connection is not necessary for backplane pin numbers ending in N1 DCLOL. Is already connected to the input of the DL11-W.

SIZE

A

CODE

SP

NUMBER

DL11-W-2

REV

A

DEC FORM NO

EN-01022-16+

DRA 108

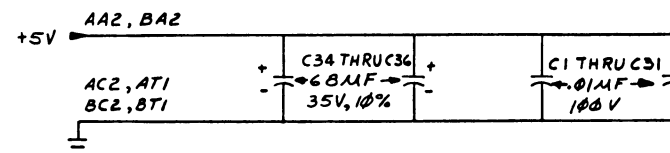
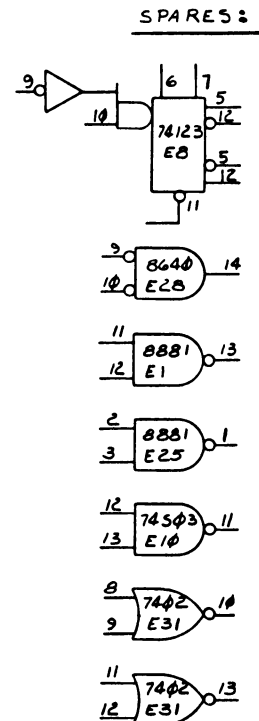
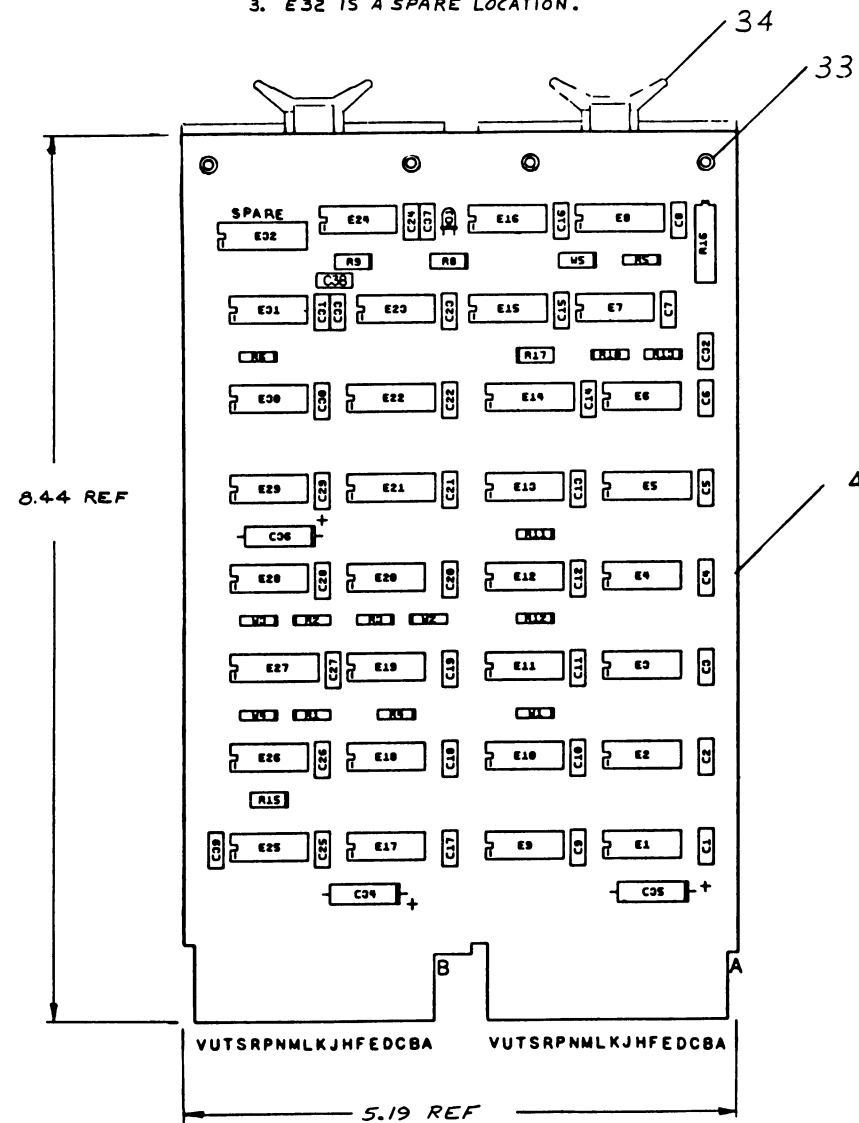
SHEET

8

OF

8

1. ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE NOTED.
ALL CAPACITORS ARE 100V, 20% UNLESS OTHERWISE NOTED.
2. JUMPER CONTROL OPERATIONS AS FOLLOWS:
W1 THRU W4 SELECT CSR ADDRESS, W5 CAPACITOR
FOR S SYN DLY, NOT USED.
3. E32 IS A SPARE LOCATION.

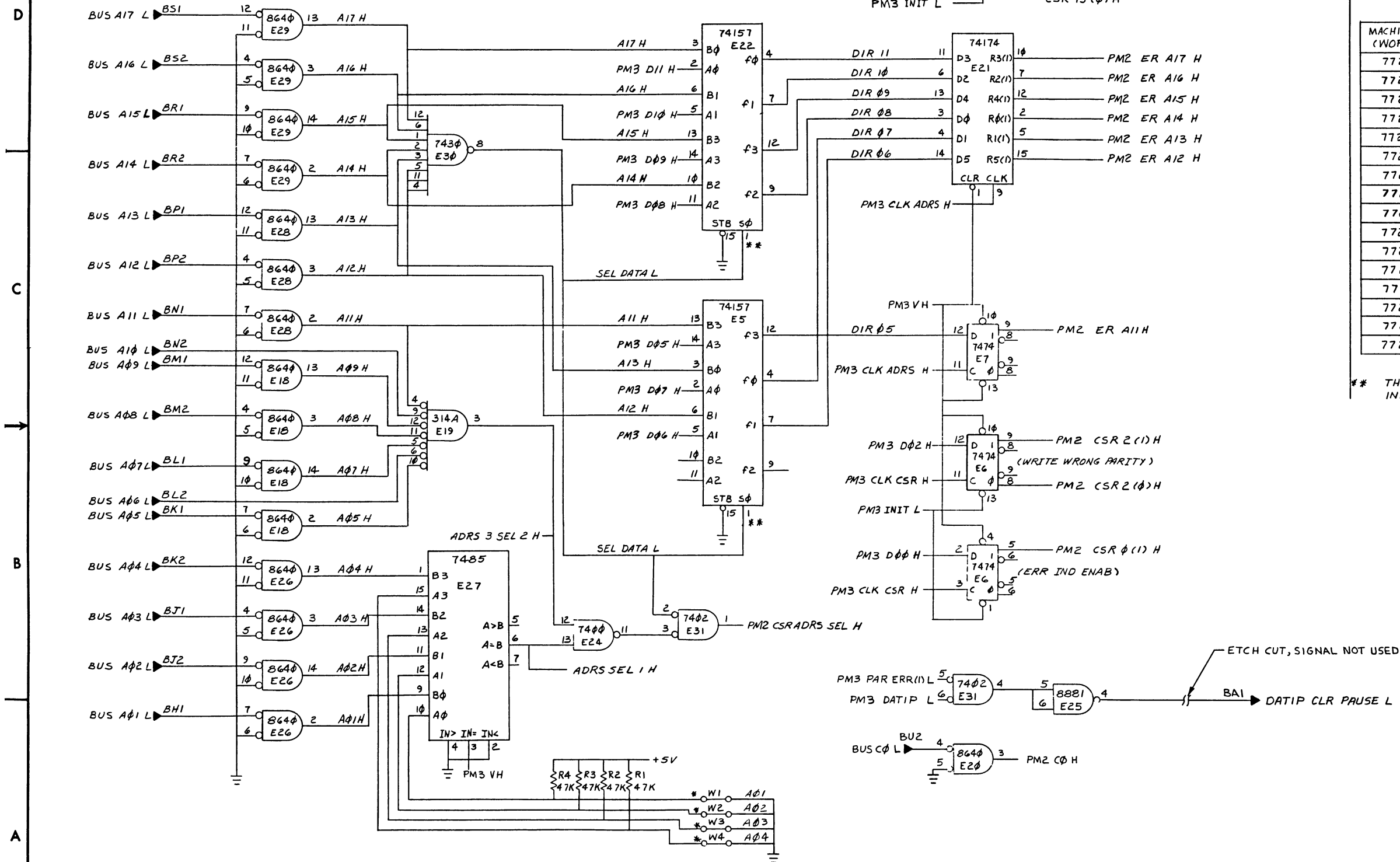


8640	1	8
8266	8	16
74157	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	8
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

DEC FORM NO. 100-108-2

8		I-0-098LW		2		1	
A3W		M38WFM		3003 3215			
REF		CIRCUIT SCHEMATIC				D-CS-M7850-0-1	REF
REF		X-Y COORDINATE HOLE LOCATION				X-CO-M7850-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT				D-AH-M7850-0-5	2
REF		MODULE ECO HISTORY				B-MH-M7850-0-6	3
1		ETCHED CIRCUIT BOARD				5010651-00	4
1	C39	CAP 470 PF, 100V, 5% (DM)				1000024-00	5
2	C33, C37	CAP 330 PF, 100V, 5% (DM)				1000023-00	6
32	C1 THRU C32	CAP .01 MF, 100V, 20% DISC				1001610-01	7
3	C34, C35, C36	CAP 6.8 MF, 35V, 10% STANT				1005306-00	8
1	D1	DIODE, LED.				1110324-00	9
5	R1 THRU R5	RES 4.7K 1/4W 5%				1300447-00	10
3	R8, R9, R15	RES 100 1/4W 5%				1300229-00	11
5	R6, R10, R11, R12, R17	RES 470 1/4W 5%				1300316-00	12
1	R13	RES 1K 1/4W 5%				1300365-00	13
1	R16	RES 10K 3/4W 20% (76 PR PR)				1309143-10	14
1	E24	I.C. 7400				1905575-00	15
1	E30	I.C. 7430				1905578-00	16
1	E31	I.C. 7402				1909004-00	17
1	E19	I.C. 314A				1909704-00	18
1	E23	I.C. 7408				1910155-00	19
4	E1, E9, E17, E25	I.C. 8881				1909705-00	20
1	E16	I.C. 74H04				1909931-00	21
1	E27	I.C. 7485				1910224-00	22
1	E8	I.C. 74123				1910436-00	23
1	E10	I.C. 74503				1910533-00	24
1	E15	I.C. 74574				1910544-00	25
1	E21	I.C. 74174				1910652-00	26
2	E5, E22	I.C. 74157				1910655-00	27
9	E2, E3, E11, E12, E18 E20, E26, E28, E29	I.C. 8640				1911469-00	28
2	E4, E13	I.C. 745280				1911573-00	29
1	E14	I.C. 8266				1909934-00	30
2	E6, E7	I.C. 7474				1905547-00	31
4	W1 THRU W4	INSULATED JUMPER				9009185-00	32
4		EYELET				9006732-00	33
2		HANDLE, FLIP-CHIP (MAGENTA)				9008337-6	34
QTY	REF. DESIGNATION	DESCRIPTION				PART NO	ITEM NO
PARTS LIST							
ETCH BOARD REV		B					
		DRN. M. LUFKIN		DATE 2-5-75		digital	
		CHK'D <i>[Signature]</i>		DATE 2/17/75			
		ENG. <i>[Signature]</i>		DATE 2/17/75			
		PROJ. ENG. <i>[Signature]</i>		DATE 2/18/75			
		PROD. <i>[Signature]</i>		DATE 2/19/75			
		NEXT HIGHER ASSY				TITLE	
		+ +				PARITY MODULE	
DEC NO.		EIA NO		SCALE 1" = 1"		SIZE CODE DCS	
				SHEET 1 OF 3		NUMBER M7850-0-1	
						REV. B	
R CONVERSION CHART							

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NOTES:

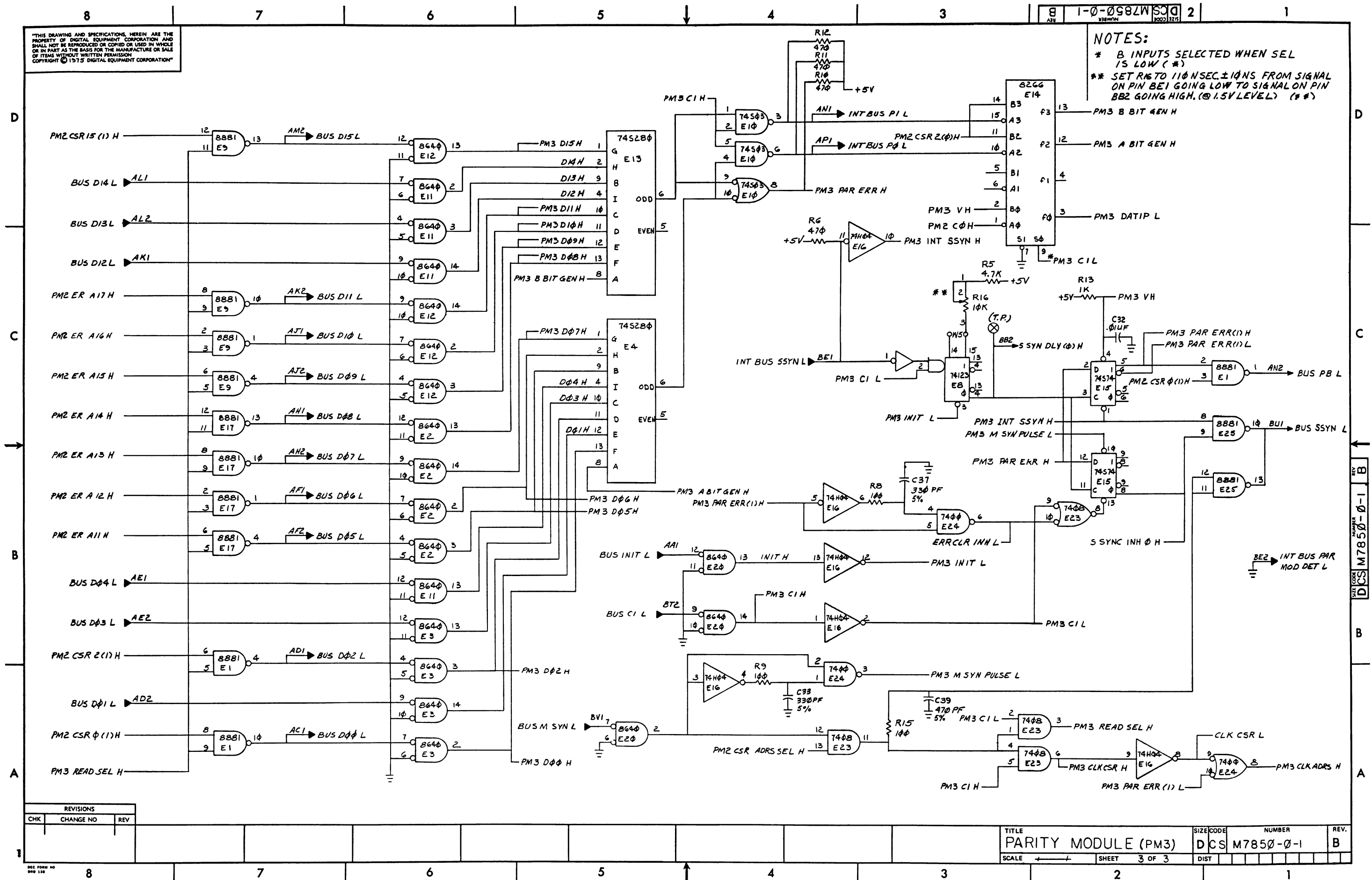
* THE CSR REGISTER ADDRESS IS LOCATED BETWEEN 772100 AND 772136. IT IS SELECTED WITH JUMPERS WITHRUW4. REMOVING A JUMPER SELECTS A "ONE" FOR THAT BIT POSITION. (*)

MACHINE ADDRESS (WORDS) B	W4 A4	W3 A3	W2 A2	W1 A1
772100	IN	IN	IN	IN
772102	IN	IN	IN	OUT
772104	IN	IN	OUT	IN
772106	IN	IN	OUT	OUT
772110	IN	OUT	IN	IN
772112	IN	OUT	IN	OUT
772114	IN	OUT	OUT	IN
772116	IN	OUT	OUT	OUT
772120	OUT	IN	IN	IN
772122	OUT	IN	IN	OUT
772124	OUT	IN	OUT	IN
772126	OUT	IN	OUT	OUT
772130	OUT	OUT	IN	IN
772132	OUT	OUT	IN	OUT
772134	OUT	OUT	OUT	IN
772136	OUT	OUT	OUT	OUT

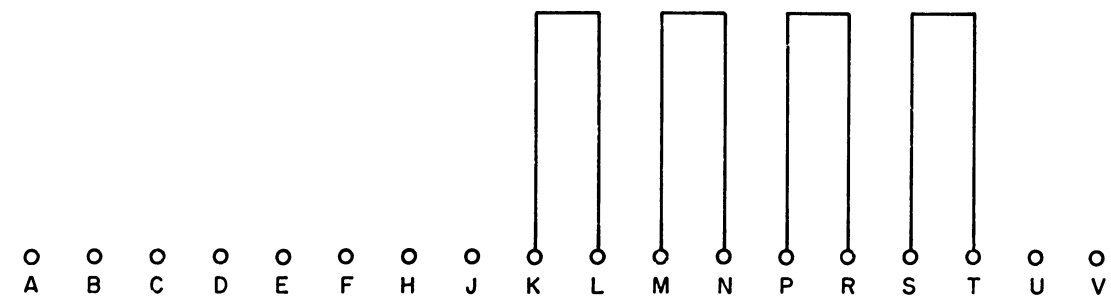
** THE "A" INPUTS ARE SELECTED WHEN THE SEL INPUT GOES LOW. (**)

REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
PARITY MODULE (PM2)		D CS	M7850-0-1	B
SCALE	SHEET	2 OF 3	DIST.	



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CHG NO REV			DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART								TITLE														
			BUTLER	11-19-69	DEC		EIA		DEC		EIA				GRANT CONTINUITY G727												
			CHK'D	DATE											SIZE	CODE	NUMBER						REV				
			P. L. Smith	6-1-70											B	CS	G727-0-1										
			ENG.	DATE																							
			Jensen	1/25/70																							
		PROD	DATE									MAYNARD MASSACHUSETTS		PRINTED CIRCUIT REV						A							

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FIELD MAINTENANCE PRINT SET

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PRINT SET ORDER NO.
MP00021

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NOTES:

1. THERMAL COMPOUND (ITEM NO. 72) TO BE PLACED UNDER E41.

2. JUMPERS TO BE CONNECTED FOR EACH VARIATION AS FOLLOWS:

2.(CONT) CONNECTIONS TO BE MADE USING BUS WIRE (ITEM NO. 73).

BA,CA,DA,EA,BB,CB,DB,EB,FA,YA,YB	WB TO W4
BC,CC,DC,EC,BD,DD,ED,YC,YD	W1 TO W2 & W3 TO W4
BE,CE,DE,EE,BF,CF,DF,EF,BH,CH,DH,EH, BJ,CJ,DJ,EJ,YE,YF,YH,YJ	W1 TO W2, W3 TO W4, & W5 TO W6

67, 73 SEE NOTE 2

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THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
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NOTES:
1. DEC PART NO. 1001610-00 IS AN ACCEPTABLE REPLACEMENT FOR DEC PART NO. 1001610-01 (ITEM 14).
2. VARIATIONS YA THRU YJ.
VARIATIONS BA THRU BJ
CA THRU CJ, DA THRU DJ
EA THRU EJ
VARIATIONS YA THRU YJ
VARIATIONS BA THRU BJ
VARIATIONS CA THRU CJ
VARIATIONS DA THRU DJ
VARIATIONS EA THRU EJ
VARIATIONS FA THRU FJ
VARIATIONS HA THRU HJ
VARIATIONS JA THRU JJ
ITEM 21: DI DIODE, ZENER IN751A, 5.1V, 5% (1109990-00)
ITEM 26: R2 RES 270, 1/4W, 5% CC (1301972-00)
DI DIODE, ZENER IN751A, 5.1V, 5% (1109994-00)
R2 560 1/4W, 5%, CC (1301890-00)
ITEM 65: 4K16 PIN MOSRAM V88 -9V(21-11749-00)
ITEM 65: MOSTEK 4096 (21-12726-00)
ITEM 65: FUJITSU 8224 (21-13787-01)
ITEM 65: MOSTEK 4027 (21-13735-01)
ITEM 65: INTEL 2104A (21-13795-01)
ITEM 65: HITACHI (21-13892-01)
ITEM 65: DEC 4027 (21-13914-01)
ITEM 65: FUJITSU 8227 (21-14475-01)

REF DESIGNATIONDESCRIPTIONPART NOITEM NO

DATA BASE TAPE5011215-0-01

DATA BASE TAPEM7847-YA-02

DATA BASE TAPEM7847-YB-03

DATA BASE TAPEM7847-YC-04

DATA BASE TAPEM7847-YD-05

DATA BASE TAPEM7847-YE-06

DATA BASE TAPEM7847-YF-07

DATA BASE TAPEM7847-YG-08

DATA BASE TAPEM7847-YH-09

DATA BASE TAPEM7847-YJ-010

UNIT ASSEMBLYD-UA-M7847-0-010

DRILL & ETCH DwgC-MD-5011215-0-011

MODULE ECO HISTORYB-M-M7847-0-612

ETCHED CIRCUIT BOARD501121513

C2, C3, C8, C9, C14, C15, C24, C25, C38, C31, C38, C61, C62, C67, C76, C77, C82, C87, C93, C98, C104, C106, C128, C129, C127, C131-C137, C139, C140, C142, C143CAP .01UF, 100V, 20% DISC1001610-01 (SEE NOTE 1)14

C6, C7, C12, C13, C18, C19, C22, C23, C28, C29, C34, C35, C41, C42, C45, C46, C49, C51, C54, C55, C58, C59, C65, C66, C70, C71, C74, C75, C80, C81, C85, C86, C90, C91, C96, C97C4-C7, C10-C13, C16-C23, C26-C29, C32-C35, C39-C59, C63-C66, C72-C75, C78-C81, C83-C86, C88-C91, C94-C97CAP .22UF, 50V CER1010274-0115

C1, C36, C68, L32, C105, C122CAP 6.8UF, 35V, 18% S TANT1005306-0016

C146CAP 82PF, 100V, 5% DM1000015-0017

C128-C130, C138CAP 220PF, 100V, 1% DM1012121-0018

C121, C141CAP 220PF, 100V, 5% DM1000021-0019

C144, C145CAP 560PF, 100V, 5% DM1000025-0020

D1SEE NOTE #221

D2DIODE, ZENER IN751A, 5.1V, 5%1110994-0022

R9-R20, R57-R65RES 18, 1/4W, 5%, CC1302124-0023

R7, R8, R21-R27, R30-R33, R52, R54, R55RES 1K, 1/4W, 5%, CC1300365-0024

R3-R5, R28, R29RES 560, 1/4W, 5%, CC1301890-0025

R2SEE NOTE #226

R82RES 330, 1/4W, 5%, CC1300308-0027

R1RES 10K, 1/4W, 5%, CC1300479-0028

R48RES 30K, 1/4W, 5%, CC1302394-0029

R37, R38, R41, R45, R47, R49, R50RES 1K, 1/4W, 1%, MF1303114-0030

R34RES 6.8K, 1/4W, 1%, MF1302872-0031

R36, R46, R51RES 4.7K, 1/4W, 5%, CC1300447-0032

R56, R53RES 100, 1/4W, 5%, CC1300229-0033

R43RES 1.54K, 1/4W, 1%, MF1312480-0034

R40RES 1.05K, 1/4W, 1%, MF1312479-0035

R35RES 2.7K, 1/4W, 5%, CC1300426-0036

R39RES 6.8K, 1/4W, 5%, CC1301423-0037

R44RES 12K, 1/4W, 5%, CC1300488-0038

R42RES 4.3K, 1/4W, 5%, CC1302389-0039

E2, E8, E14, E24, E30, E36IC 741741910652-0040

E1, E7, E13, E23, E29IC 86411911579-0041

REF DESIGNATIONDESCRIPTIONPART NOITEM NO

E35IC 88811909705-0042

E54, E55, E60, E61, E70, E71IC 86401911469-0043

E77, E135IC 74741905547-0044

E83IC 741971910035-0045

E76, E82, E88, E115, E119IC 74751909050-0046

E93, E98, E99IC 7451531910547-0047

E100, E103, E107, E109IC 7451401910546-0048

E104, E105IC 74201905577-0049

E106IC 74831909932-0050

E110, E113, E131IC 74001905575-0051

E112, E118, E123IC 745201910539-0052

E117IC 74861910011-0053

E124IC 745041910534-0054

E125IC 745031910533-0055

E127, E132, E133IC 751071910268-0056

E128IC 745051910535-0057

E129IC 74041909686-0058

E114, E122IC 74401905579-0059

E116IC 745111910537-0060

E108IC 74371910091-0061

E41IC 78121912048-0162

E134IC 745101910536-0063

E130IC 745741910544-0064

E12, E18, E22, E28, E34, E40, E45, E49, E59, E65, E69, E75, E81, E87, E92, E971665

E6, E12, E18, E22, E28, E34, E40, E45, E49, E53, E59, E65, E69, E75, E81, E87, E92, E9718

E11, E12, E17, E18, E21, E22, E27, E28, E33, E34, E39, E40, E44, E45, E48, E49, E58, E59, E64, E65, E68, E69, E74, E75, E80, E81, E86, E87, E91, E92, E96, E9732

E5, E6, E11, E12, E17, E18, E21, E22, E27, E28, E33, E34, E39, E40, E44, E45, E48, E49, E52, E53, E58, E59, E64, E65, E68, E69, E74, E75, E80, E81, E86, E87, E91, E92, E96, E9736

E10, E12, E16, E18, E20, E22, E26, E28, E32, E34, E38, E40, E43, E45, E47, E49, E57, E59, E63, E65, E67, E69, E73, E75, E79, E81, E85, E87, E90, E92, E95, E9748

E4, E6, E10, E12, E16, E18, E20, E22, E26, E28, E32, E34, E38, E40, E45, E45, E47, E49, E51, E53, E57, E59, E63, E65, E67, E69, E73, E75, E79, E81, E85, E87, E90, E92, E95, E9754

E9, E12, E15, E22, E25, E28, E31, E34, E37, E40, E42, E49, E56, E59, E62, E69, E72, E75, E78, E81, E84, E87, E89, E92, E94, E9764

E3, E6, E9, E12, E15, E22, E25, E28, E31, E34, E37, E40, E42, E49, E56, E59, E62, E69, E72, E75, E78, E81, E84, E87, E89, E92, E94, E9772

REVISIONS

CHKCHANGE NO.REV.

DEC PART NO. 1001610-00

87654321

TITLEUNIBUS MOS MEMORY

SCALE

SHEET 2 OF 16

SIZE CODED CS

NUMBERM7847-0-1

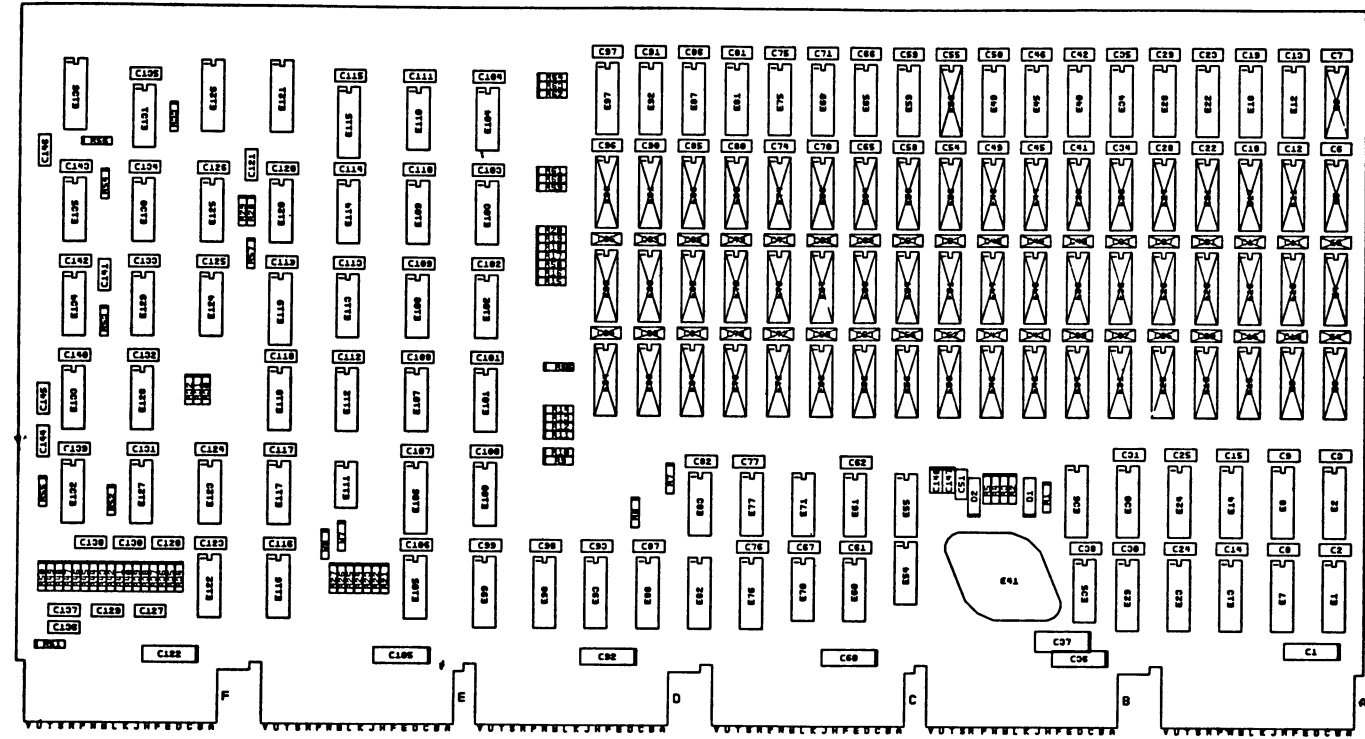
REV.K

BU	CJ	DJ	EJ	FJ	HUJU
BH	CH	DH	EH	FH	HUHU
BF	CF	DF	EF	FF	HUHF
BE	CE	DE	EE	FE	HUHE
BD	CD	DD	ED	FD	HUHD
BC	CC	DC	EC	FC	HUC
BB	CB	DB	EB	FB	HUB
BA	CA	DA	EA	FA	HUA

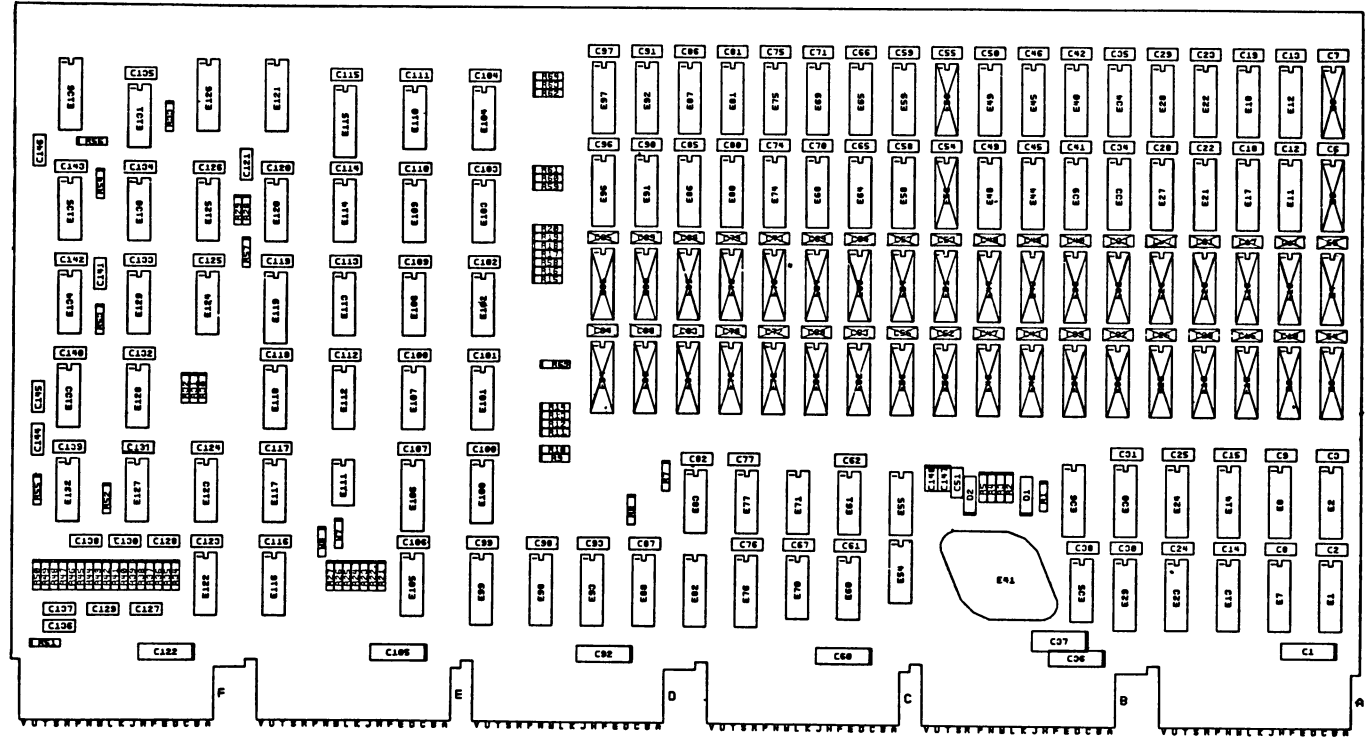
Y1	YH	YF	YE	YD	YC	YB	YA		PARTS LIST		
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO
1	1	1	1	1	1	1	1	E111	DIP SWITCH	1211164-01	66
6	6	6	6	6	6	6	6		SPLIT LUGS	9006735-00	67
1	1	1	1	1	1	1	1		HANDLE ASSY	1210711-02	68
12	12	12	12	12	12	12	12		EYELET	9006732-00	69
2	2	2	2	2	2	2	2		NUT, KEP #4-40	9006557-00	70
2	2	2	2	2	2	2	2		SCR, PPH, #4-40 x .31	9006010-01	71
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		THERMAL COMPOUND	9008268-00	72
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		WIRE #22 AWG BUS	9107560-01	73
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		WIRE, #30 AWG WIRE WRAP	9105740-55	74
1	1	1	1	1	1	1	1	C37	CAP .01UF, 25 V	1012064-01	75
2	2	2	2	2	2	2	2	C147, C148	CAP .47UF, 25 V, CER	1010273-00	76
1	1	1	1	1	1	1	1	W8	JUMPER, WIRE INSULATED	9009185-00	77
1	1	1	1	1	1	1	1	E120	IC 74LS20	1912510-00	78
REF	REF	REF	REF	REF	REF	REF	REF		DRAWING DIRECTORY	B-DD-M7847-0	79

REVISIONS		
CHK	CHANGE NO	REV

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-YA;BA;CA;DA, -EA;FA;HA;JA.



-YC;-BC;-CC;-DC, -EC;-FC;-HC;-JC

REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO 130

8

7

6

5

4

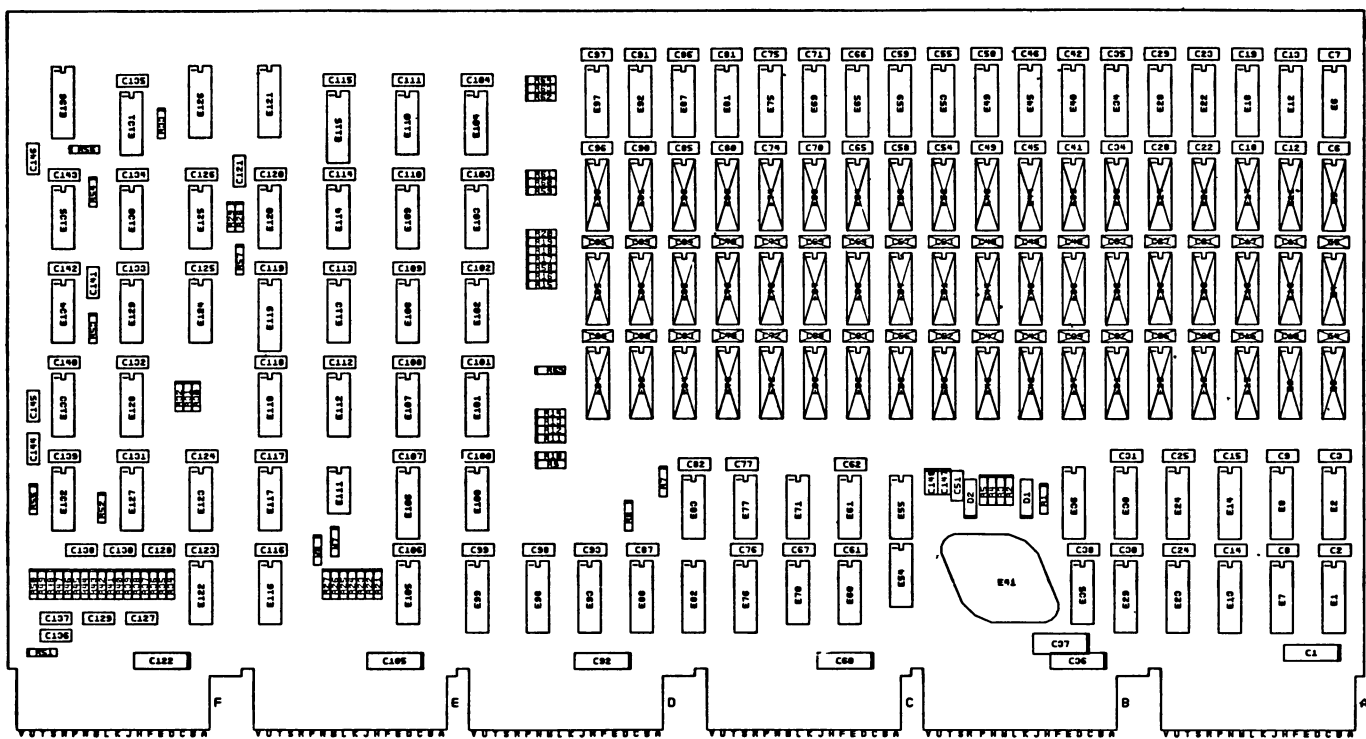
3

2

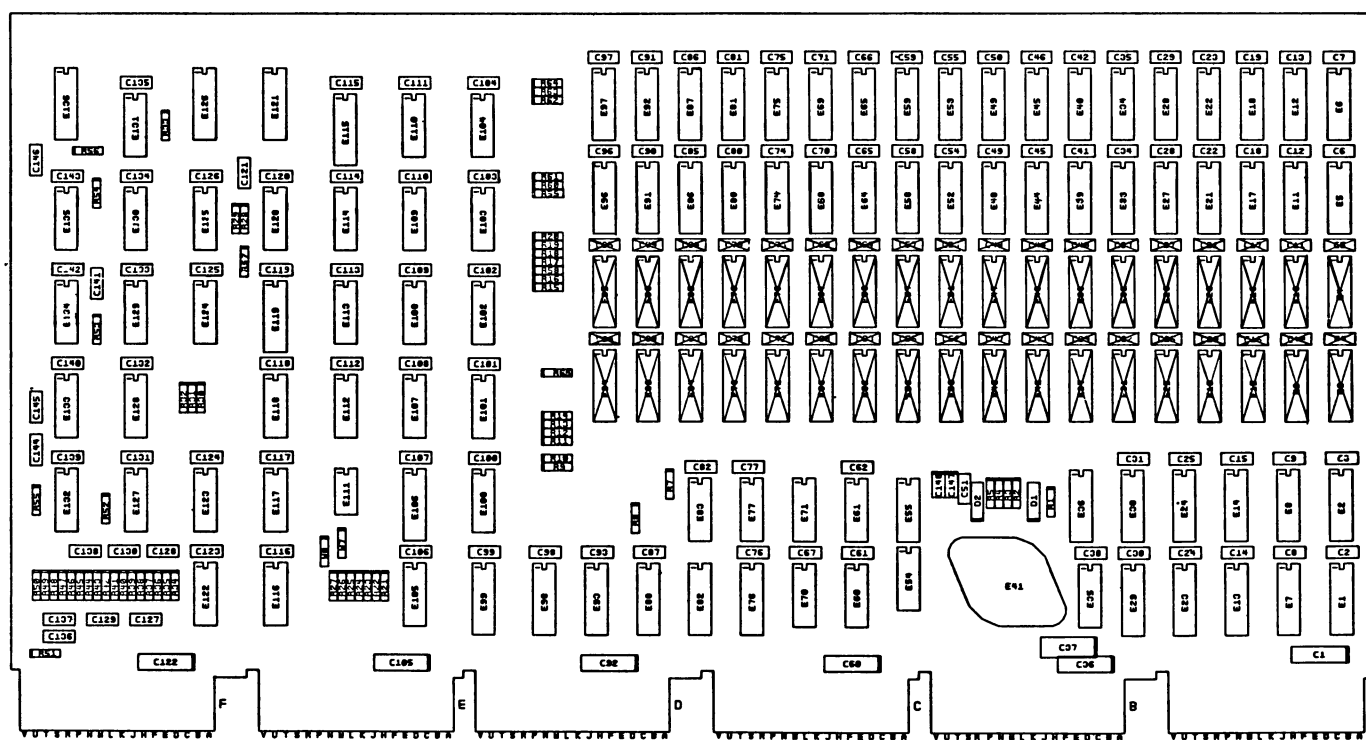
1

SIZE CODE NUMBER DCSM7847-0-1 K

NOTE:
THESE OVERLAYS ONLY TO INDICATE POSITIONS FOR 4K MOS MEMORY IC'S & .22 UF CAPS



-YB;-BB;-CB;-DB, -EB;-FB;-JB;-HB

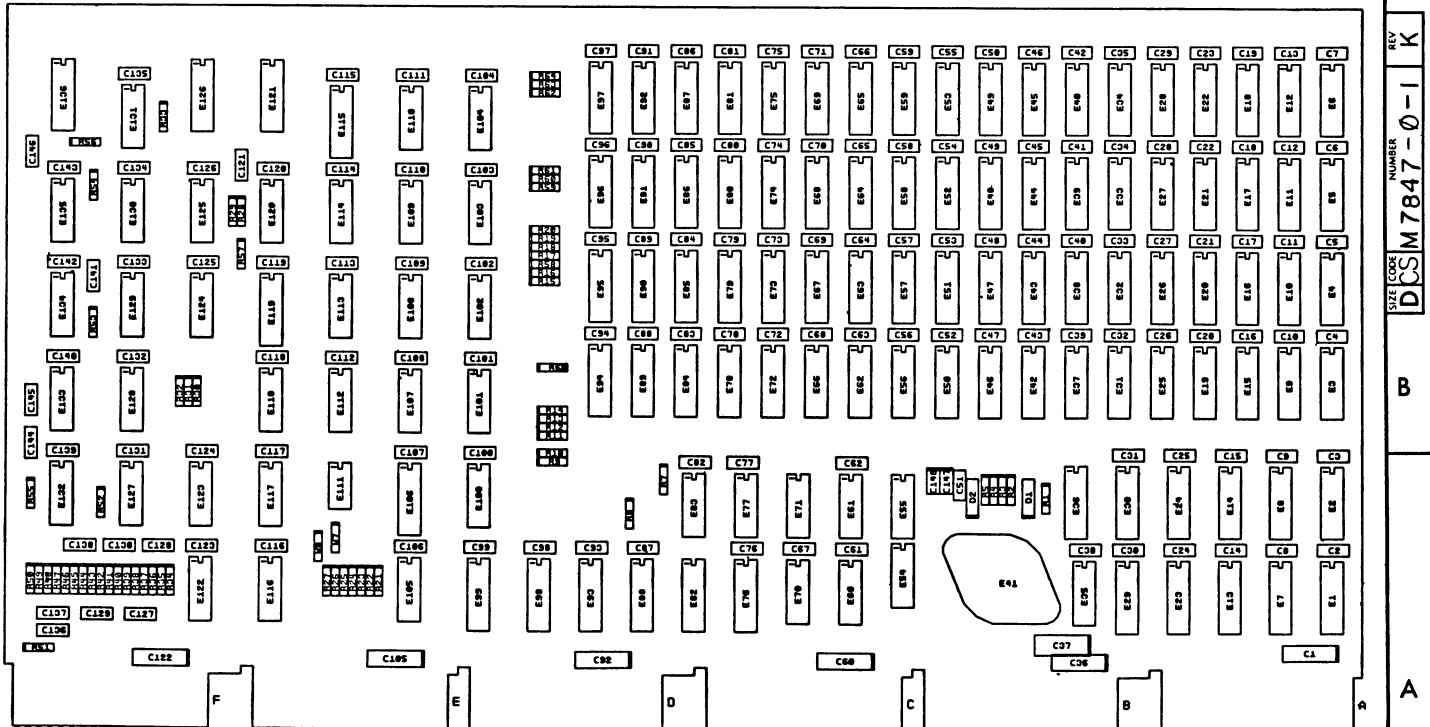
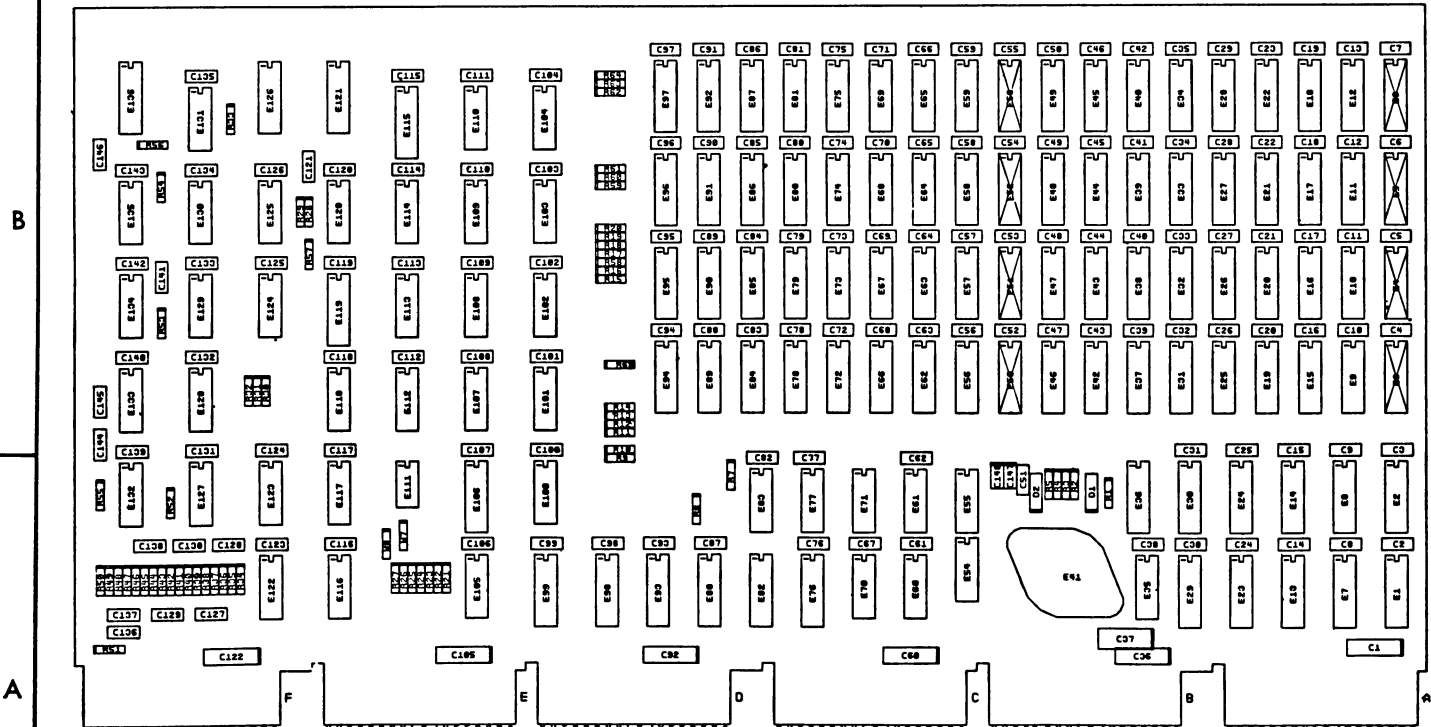
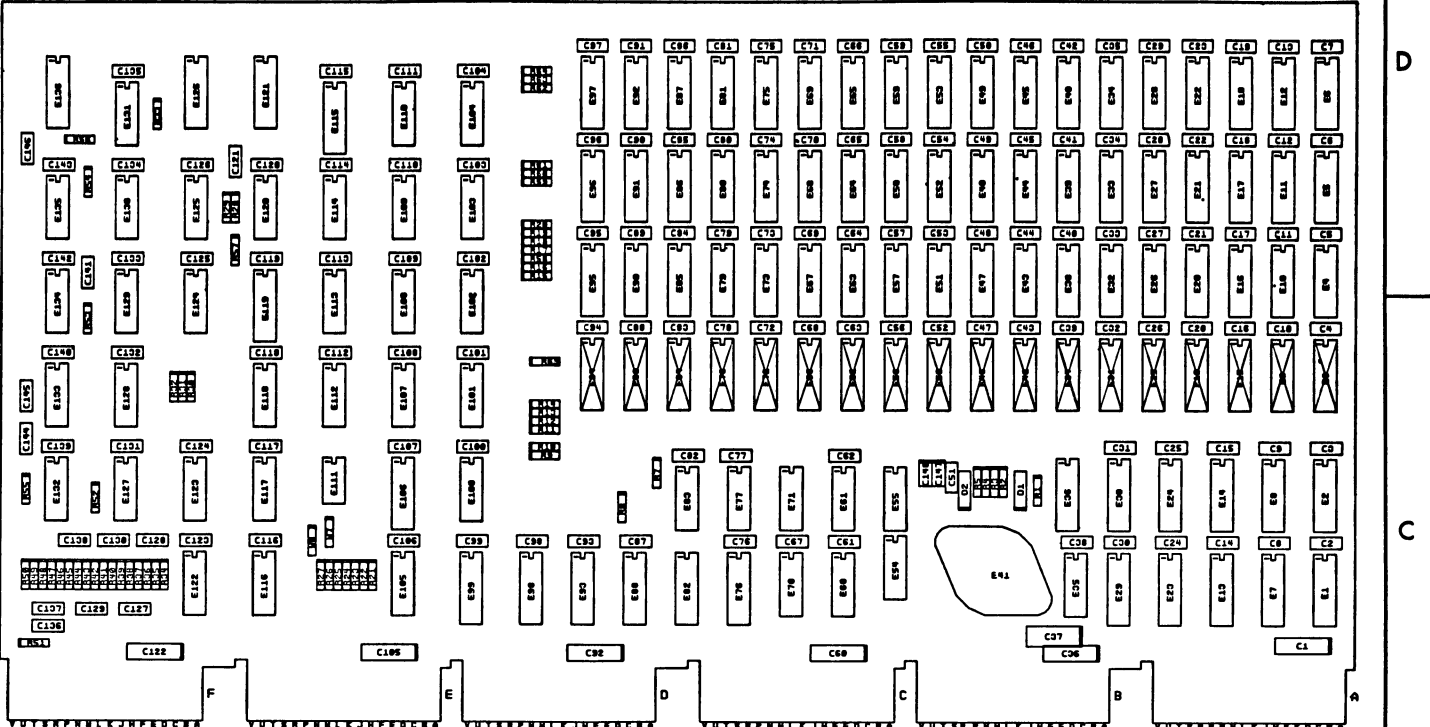
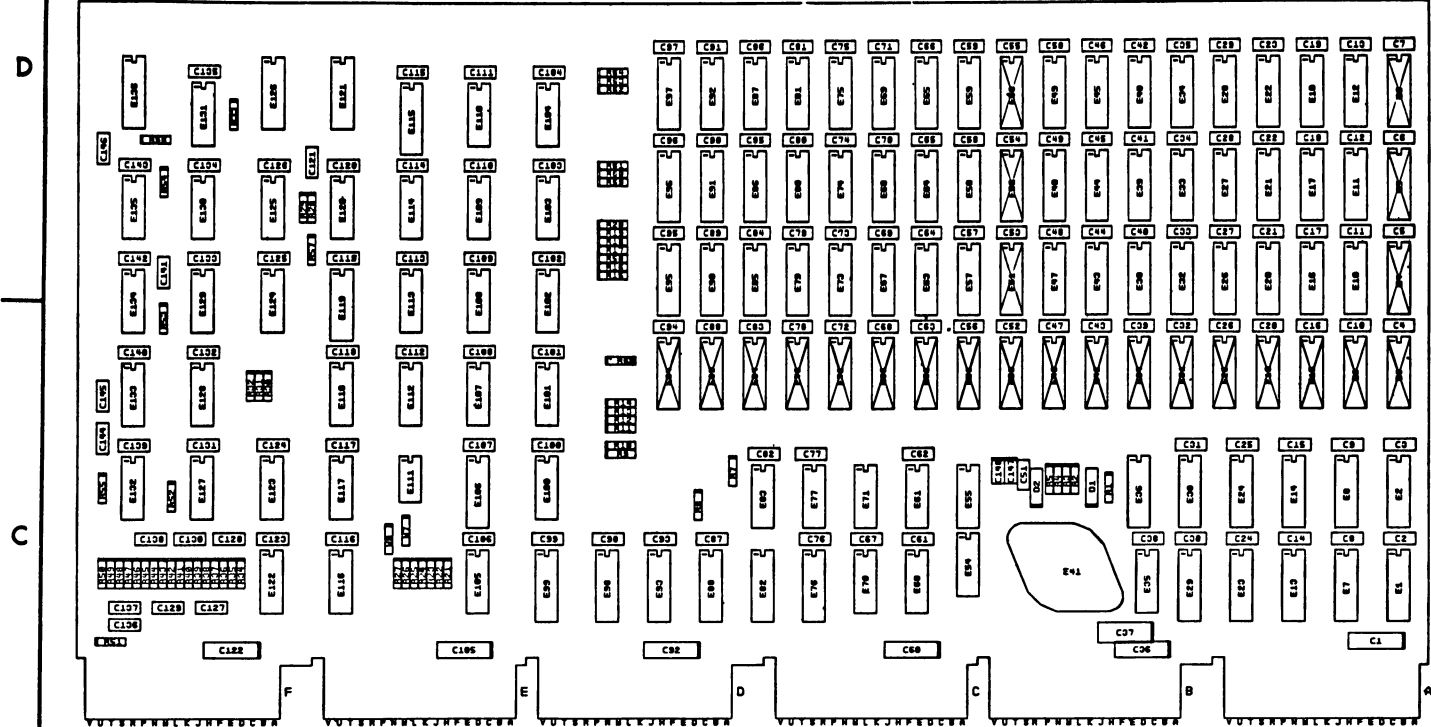


-YD;-BD;-CD;-DD, -ED;-FD;-HD;-JD.

TITLE		SIZE CODE	NUMBER	REV.
UNIBUS MOS MEMORY		DCSM7847-0-1	K	
SCALE	SHEET 4 OF 16	DIST		

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NOTE:
THESE OVERLAYS ONLY TO INDICATE POSITIONS
FOR 4K MOS MEMORY IC'S AND .22 U.F CAPS,



REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
UNIBUS MOS MEMORY		D C3	M7847-0-1	K
SCALE		SHEET 5 OF 14		

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NOTE:
JUMPERS CONNECTED AS FOLLOWS

BA, CA, DA, EA, BB, CB, DB, EB, YA, YB, FA, HA, JA, FB, HB, JB	W3 - W4
BC, CC, DC, EC, BD, CD, DD, ED, YC, YD, FC, HC, JC, FD, HD, JD	W1 - W2 W3 - W4
BE, CE, DE, EE, BF, CF, DF, EF, BH, CH, DH, EH, BJ, CJ, DJ, EJ, YE, YF, YH, YJ, FE, HE, JE, FF, HF, JF, FH, HH, JH, EJ, HJ, JJ	W1 - W2 W3 - W4 W5 - W6

D

C

B

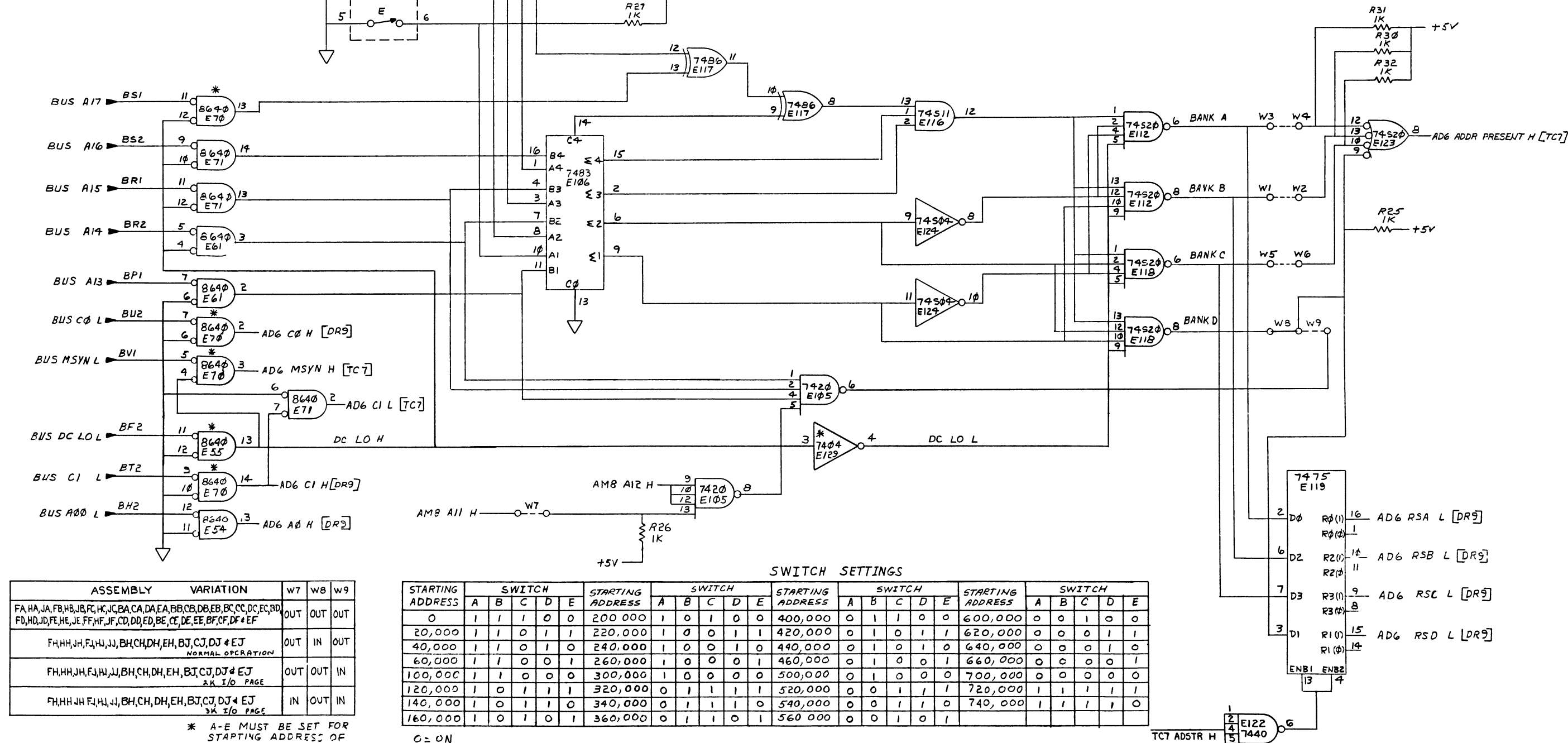
A

D

C

B

A



ASSEMBLY	VARIATION	W7	W8	W9
FA, HA, JA, FB, HB, JB, FC, HC, JC, BA, CA, DA, EA, BB, CB, DB, EB, BC, CC, DC, EC, BD, YC, YD, FC, HC, JC, FD, HD, JD, BE, CE, DE, EE, BF, CF, DF, EF		OUT	OUT	OUT
FH, HH, JH, FH, JH, JH, BH, CH, DH, EH, BJ, CJ, DJ, EJ	NORMAL OPERATION	OUT	IN	OUT
FH, HH, JH, FH, JH, JH, BH, CH, DH, EH, BJ, CJ, DJ, EJ	2K I/O PAGE	OUT	OUT	IN
FH, HH, JH, FH, JH, JH, BH, CH, DH, EH, BJ, CJ, DJ, EJ	3K I/O PAGE	IN	OUT	IN

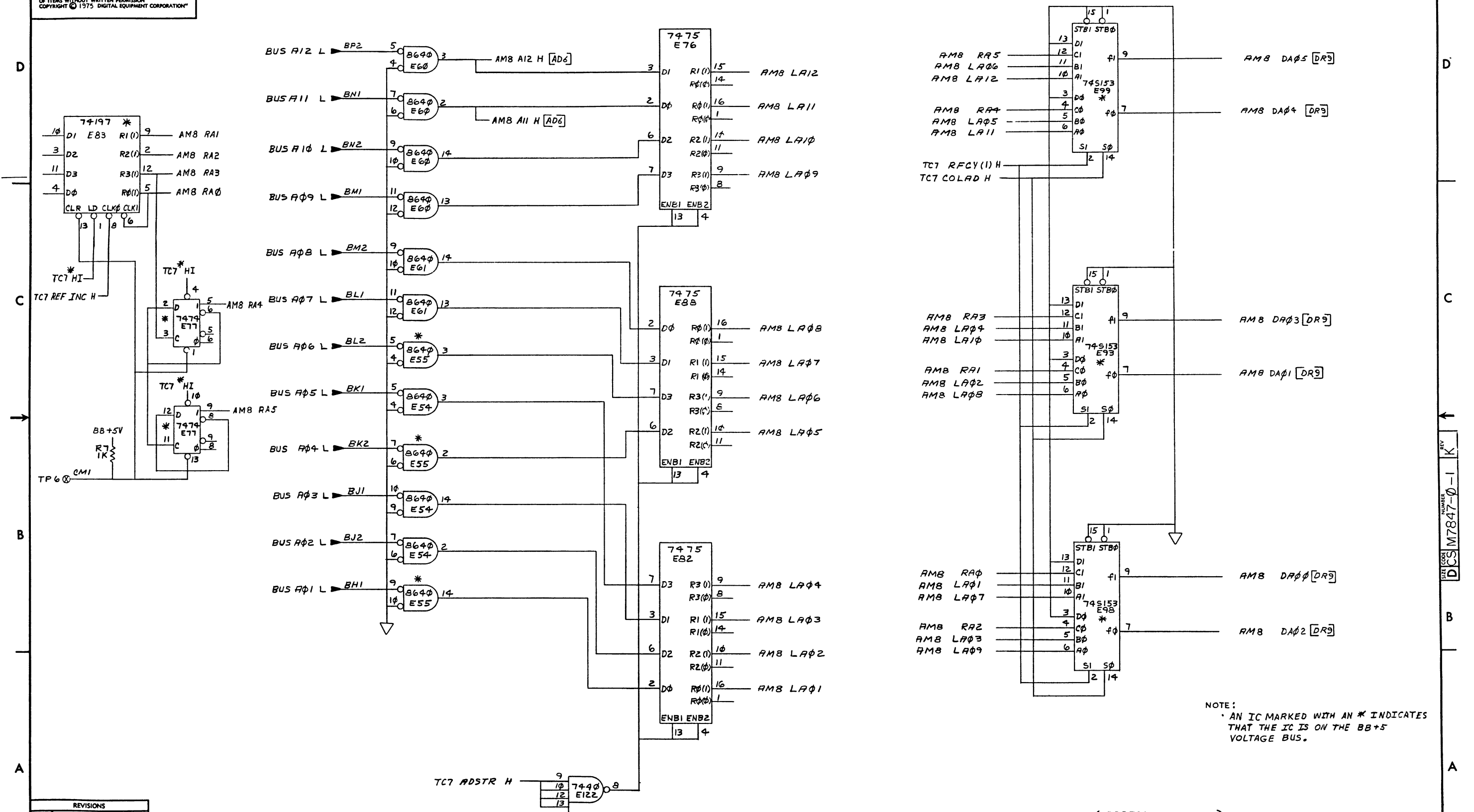
* A-E MUST BE SET FOR STARTING ADDRESS OF 100 000.

STARTING ADDRESS	SWITCH					STARTING ADDRESS	SWITCH					STARTING ADDRESS	SWITCH					STARTING ADDRESS	SWITCH				
	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
0	1	1	1	0	0	200 000	1	0	1	0	0	400,000	0	1	1	0	0	600,000	0	0	1	0	0
20,000	1	1	0	1	1	220,000	1	0	0	1	1	420,000	0	1	0	1	1	620,000	0	0	0	1	1
40,000	1	1	0	1	0	240,000	1	0	0	1	0	440,000	0	1	0	1	0	640,000	0	0	0	1	0
60,000	1	1	0	0	1	260,000	1	0	0	0	1	460,000	0	1	0	0	1	660,000	0	0	0	0	1
100,000	1	1	0	0	0	300,000	1	0	0	0	0	500,000	0	1	0	0	0	700,000	0	0	0	0	0
120,000	1	0	1	1	1	320,000	0	1	1	1	1	520,000	0	0	1	1	1	720,000	1	1	1	1	1
140,000	1	0	1	1	0	340,000	0	1	1	1	0	540,000	0	0	1	1	0	740,000	1	1	1	1	0
160,000	1	0	1	0	1	360,000	0	1	1	0	1	560 000	0	0	1	0	1						

0 = ON
1 = OFF

REVISIONS		
CHK	CHANGE NO	REV

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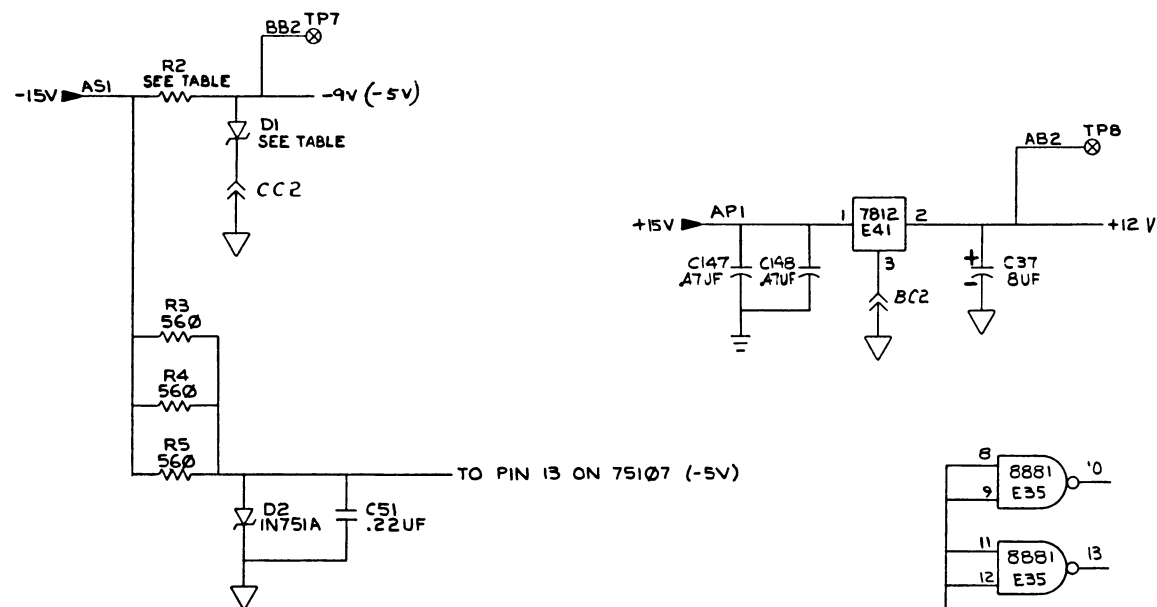
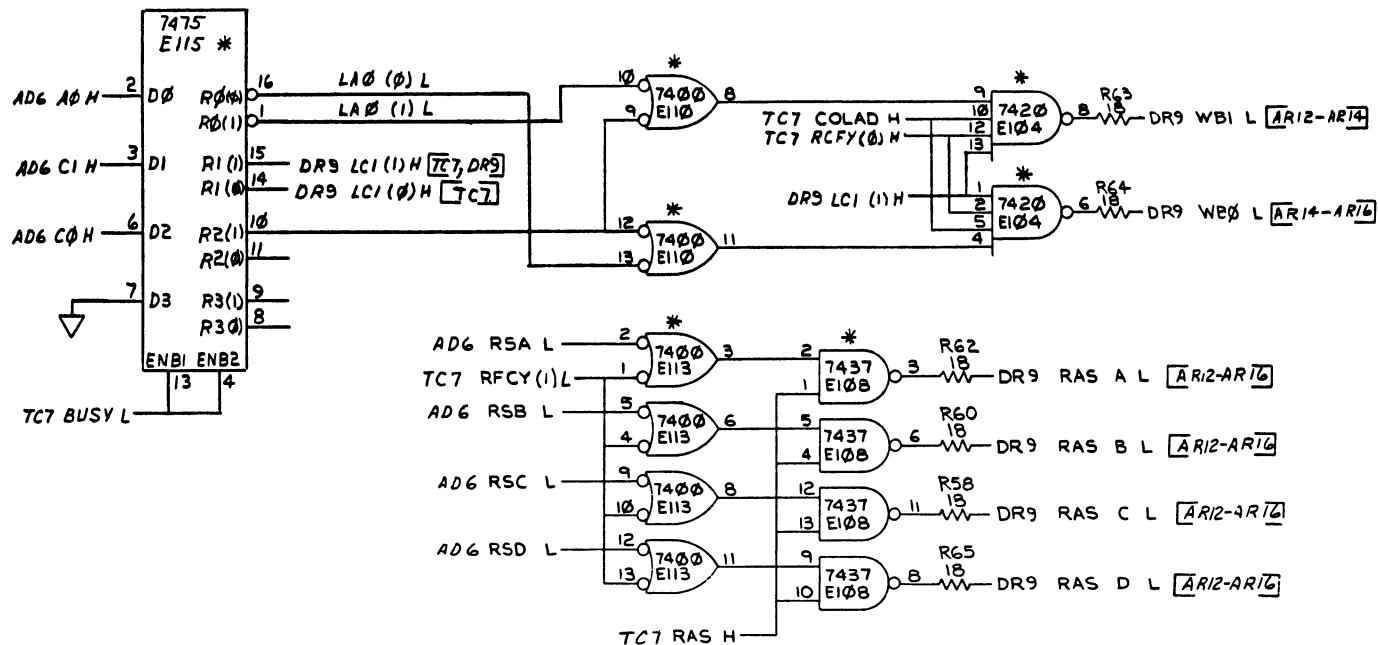
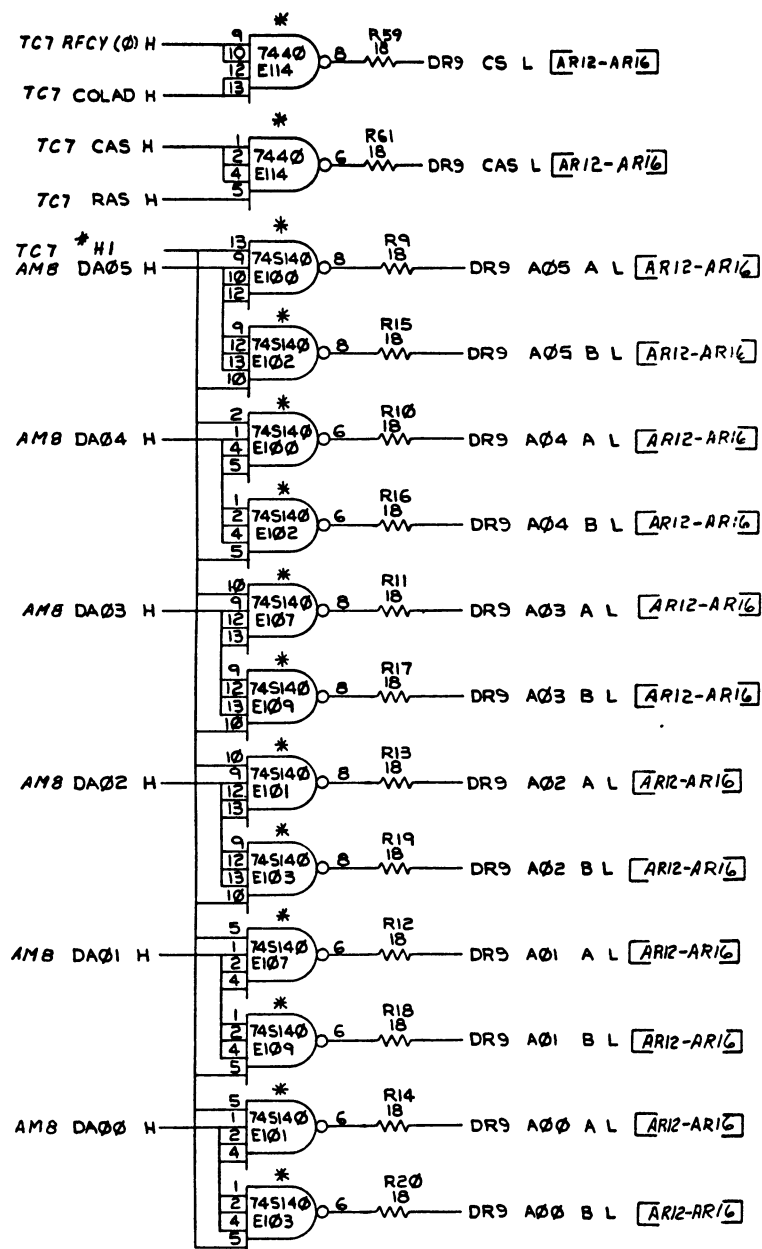


NOTE:
• AN IC MARKED WITH AN * INDICATES THAT THE IC IS ON THE BB+5 VOLTAGE BUS.

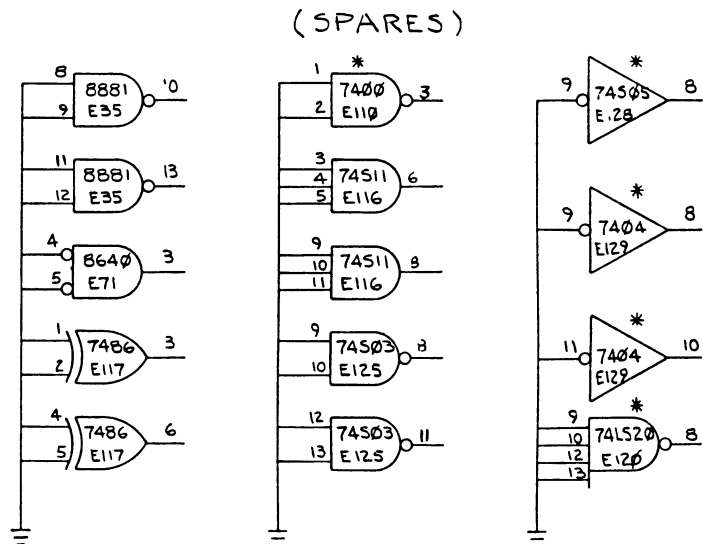
REVISIONS		
CHK	CHANGE NO	REV

(ADDRESS MULTIPLEX)									
TITLE				SIZE CODE		NUMBER		REV.	
UNIBUS MOS MEMORY (AMB)				D CS		M7847-0-1		K	
SCALE		SHEET		8 OF		16		DIST.	
— / —									

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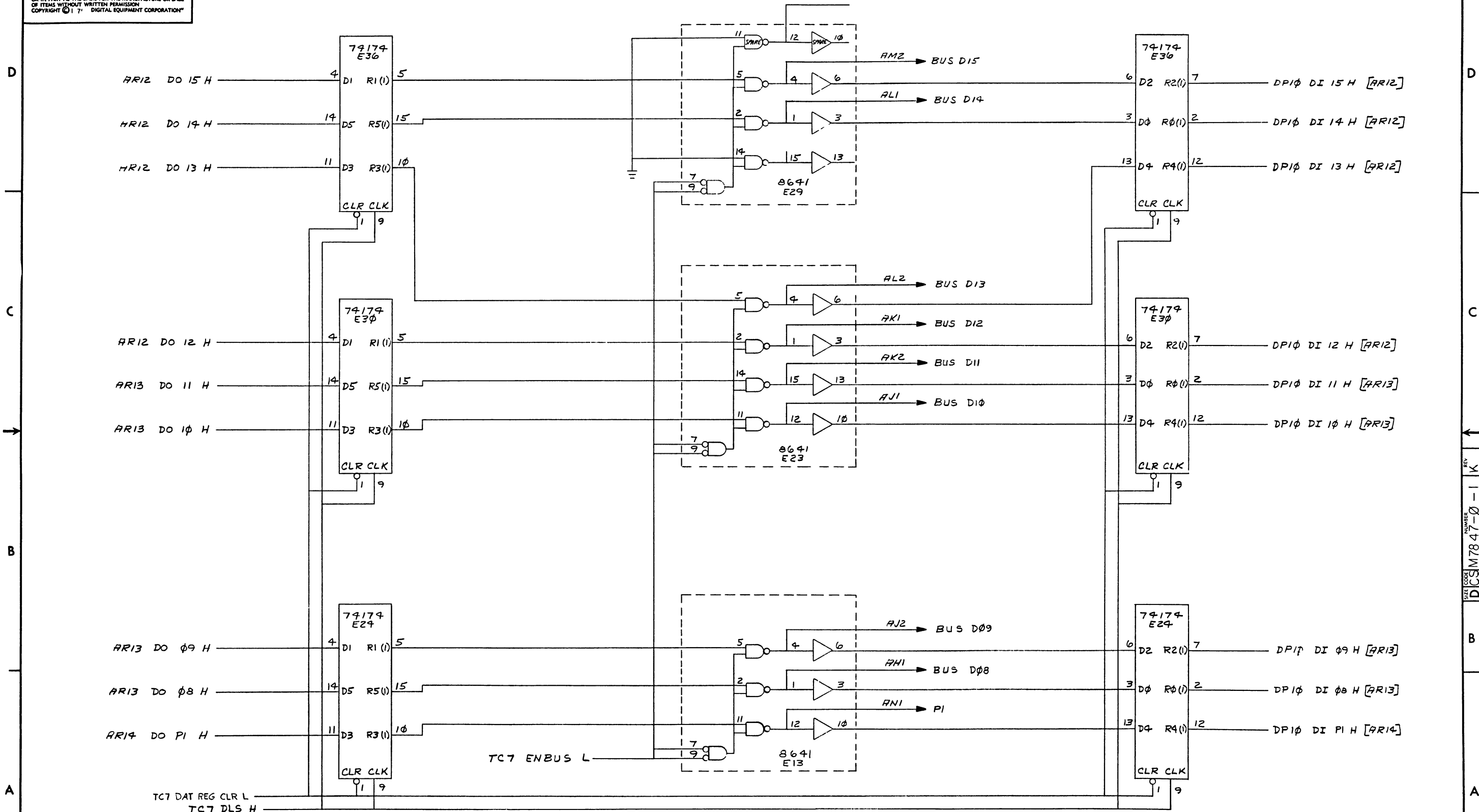
VARIATION	R2 VALUE	D1 VALUE
YA, YB, YC, YD YE, YF, YH, YJ	270	IN 757 A 9V
BA, CA, DA, EA, BB, CB, DB, EB, BC CC, DC, EC, BD, CD, DD, ED, BE, CE, DE, EE, BF, CF, DFEF, BH, CH, DH, EH, BJ, CJ, DJ, EJ	560 Ω	IN 751 A -5V



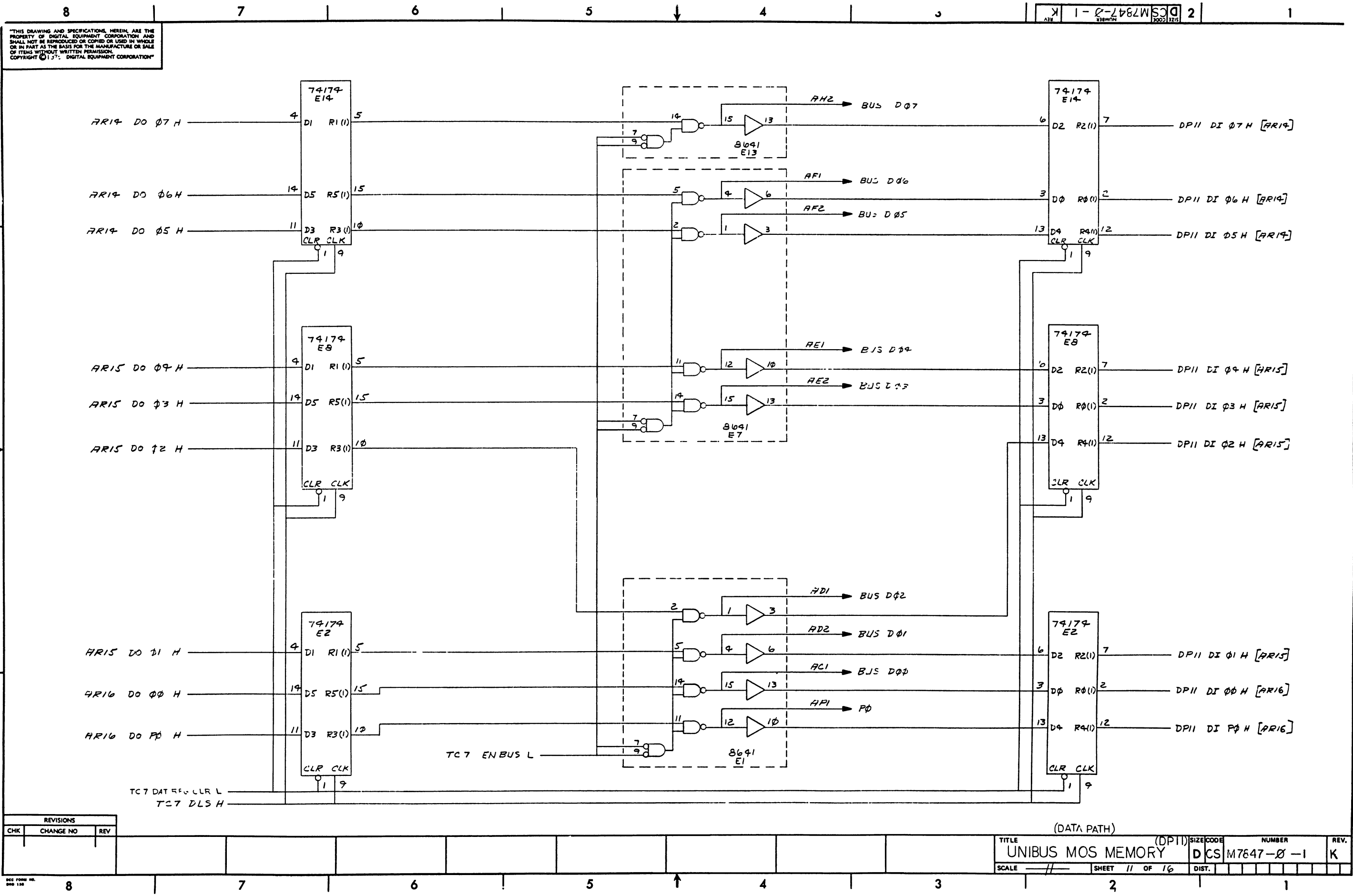
CHK	CHANGE NO	REV

TITLE: UNIBUS MOS MEMORY (DR9) SIZE CODE: D CS M7847-0-1 NUMBER: 1 REV: K

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REVISIONS		
CHK	CHANGE NO	REV



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D

C

B

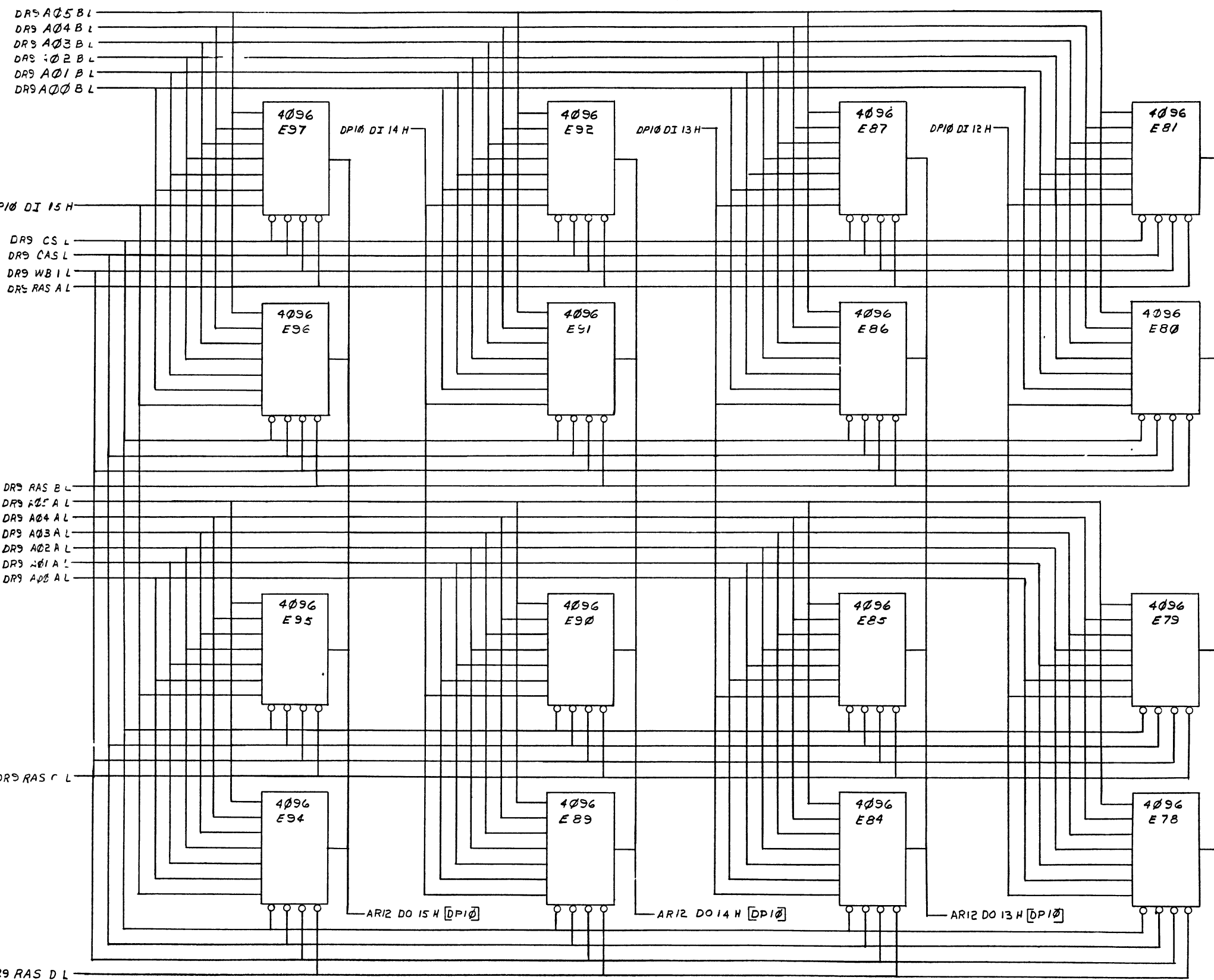
A

D

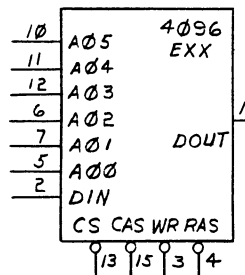
C

B

A



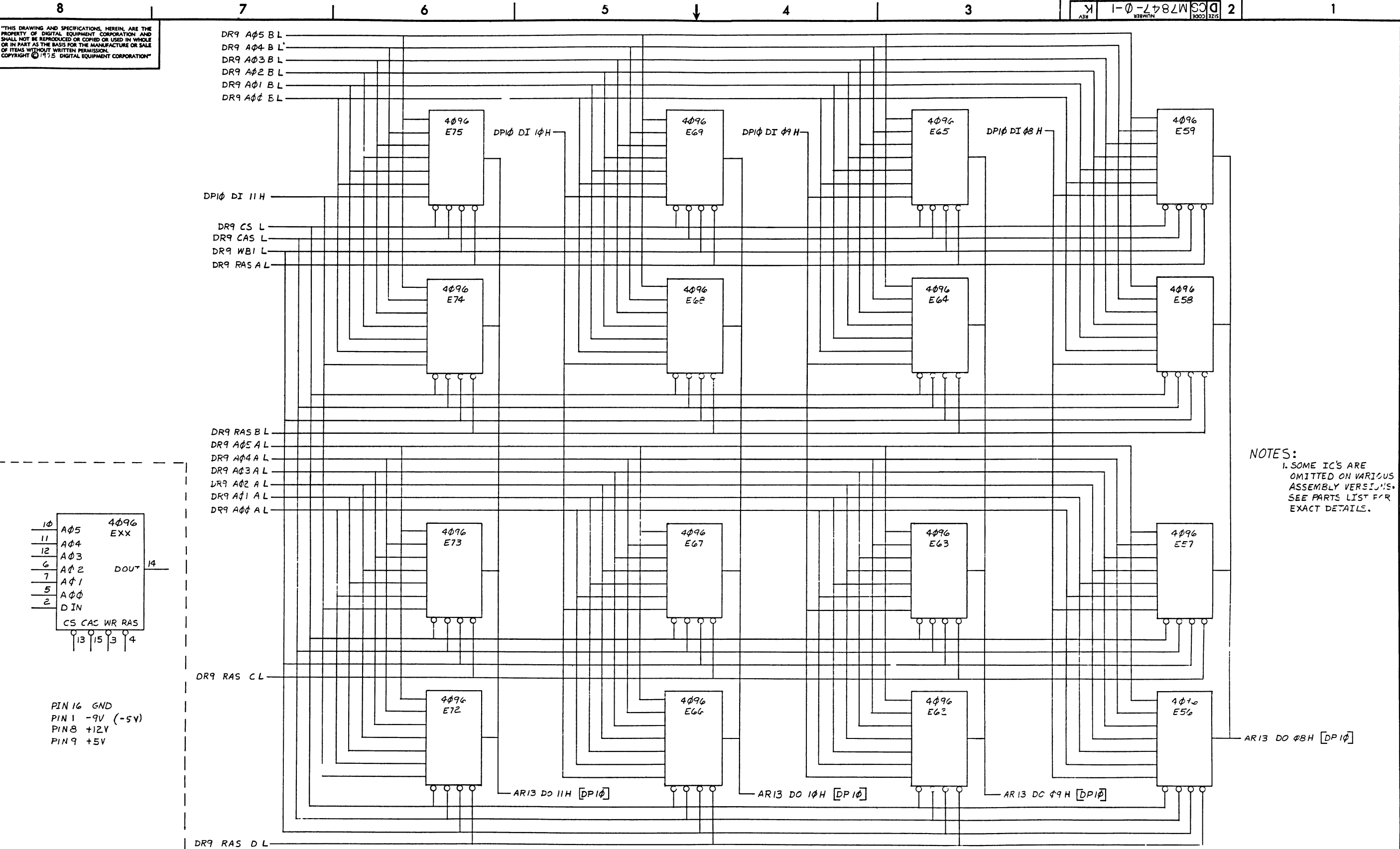
NOTE:
1. SOME IC'S ARE OMITTED ON VARIOUS ASSEMBLY VERSIONS, SEE PARTS LIST FOR EXACT DETAILS.



GND PIN 16
(-5V) -9V PIN 1
+12V PIN 8
+5V PIN 9

REVISIONS		
CHK	CHANGE NO	REV

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NOTES:
1. SOME IC'S ARE OMITTED ON VARIOUS ASSEMBLY VERSIONS. SEE PARTS LIST FOR EXACT DETAILS.

REVISIONS		
CHK	CHANGE NO	REV

(ARRAY)

TITLE			UNIBUS MOS (AR13)		S'Z CODE		NUMBER			REV.		
			MEMORY		DCS		M7847-0-1			K		
SCALE			+ + +		SHEET		13 OF 16		DIST.			

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D

C

B

A

DR9 A05 B L
DR9 A04 B L
DR9 A03 B L
DR9 A02 B L
DR9 A01 B L
DR9 A00 B L

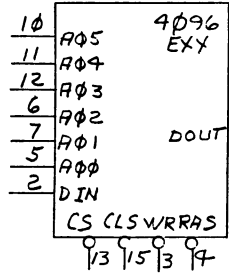
DPI0 DI PI H
DR9 CS L
DR9 CAS L
DR9 WB1 L
DR9 RAS A L

NOTE:
SOME IC'S ARE OMITTED ON VARIOUS
ASSEMBLY VERSIONS. SEE PARTS LIST
FOR EXACT DETAILS.

DR9 R75 B L
DR9 A05 A L
DR9 A04 A L
DR9 A03 A L
DR9 A02 A L
DR9 A01 A L
DR9 A00 A L

DR9 RAS C L

DR9 RAS D L



GND PIN 16
-5V PIN 1
+12V PIN 8
+5V PIN 9

REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO
DSD 128

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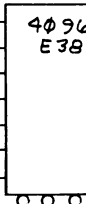
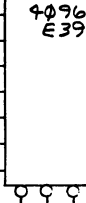
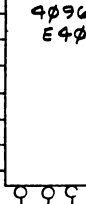
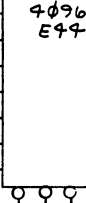
DP11 DI 074



DP11 DI 06 H



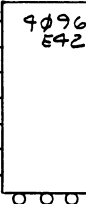
DP11 DI 05 H



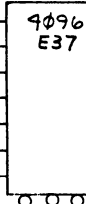
ARI4 DO PI H [DPI0]



ARI4 DO 07 H [DPI1]



ARI4 06 H [DPI1]



ARI4 DO 05 H [DPI1]

D

C

B

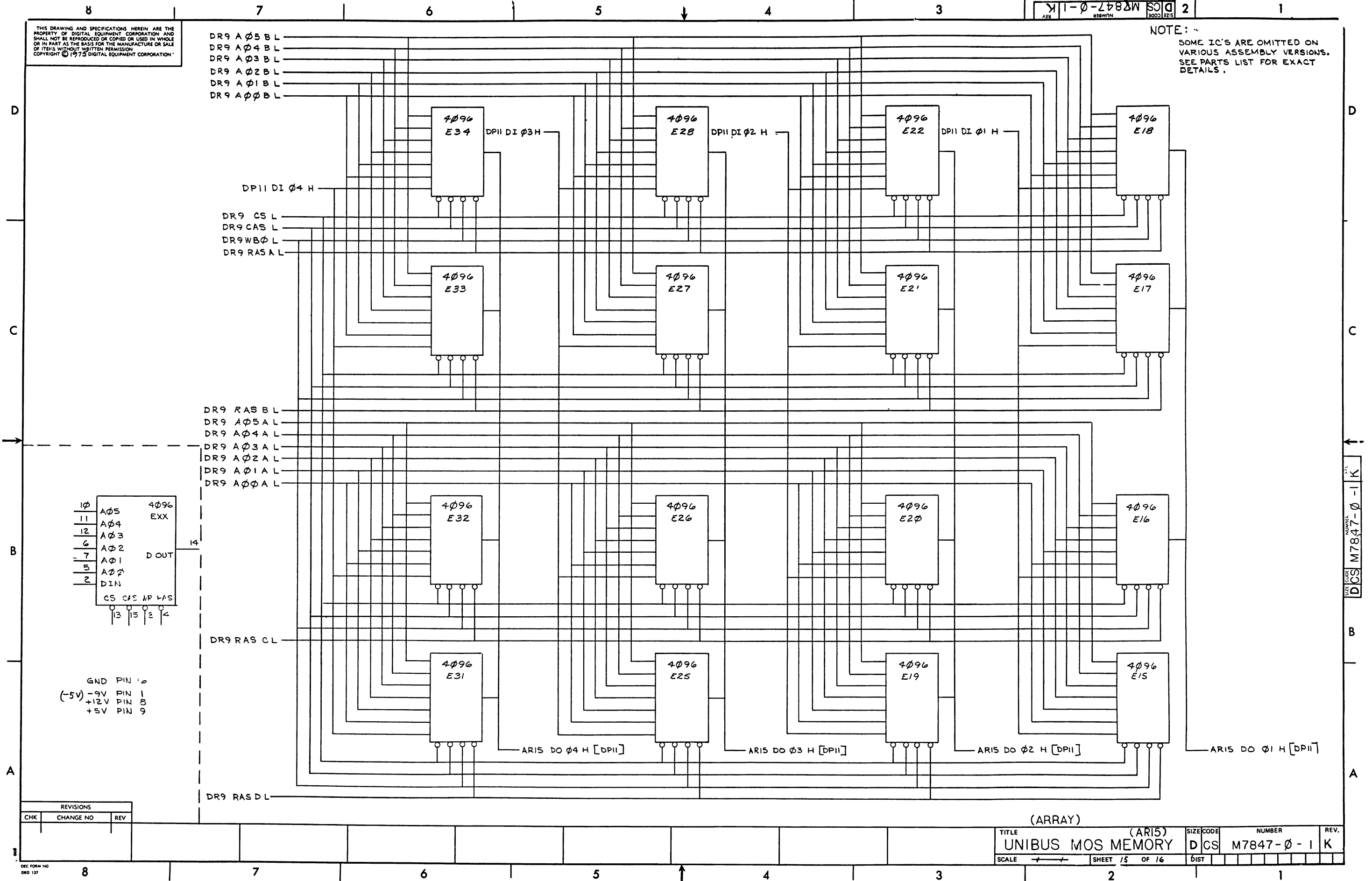
A

REV. K
NUMBER DCSM7847-0-1
SIZE CODE D

(ARRAY)									
TITLE				(ARI4)	SIZE CODE		NUMBER		REV.
UNIBUS MOS MEMORY					DCS		M7847-Ø - 1		K
SCALE		SHEET		14 OF 16		DIST.			

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NOTE: -
SOME IC'S ARE OMITTED ON
VARIOUS ASSEMBLY VERSIONS.
SEE PARTS LIST FOR EXACT
DETAILS.



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DR9 A05 B L
DR9 A04 B L
DR9 A03 B L
DR9 A02 B L
DR9 A01 B L
DR9 A00 B L

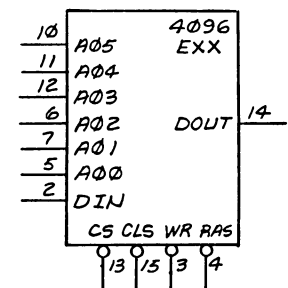
DPII DI P0 H

DR9 CS L
DR9 CAS L
DR9 WB0 L
DR9 RAS A L

DR9 RAS B L
DR9 A05 A L
DR9 A04 A L
DR9 A03 A L
DR9 A02 A L
DR9 A01 A L
DR9 A00 A L

DR9 RAS C L

DR9 RAS D L



GND PIN 16
(-5V) -9V PIN 1
+12V PIN 8
+5V PIN 9

REVISIONS		
CHK	CHANGE NO	REV

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DCS M7847-0-1

NOTE:
SOME IC'S ARE OMITTED ON
VARIOUS ASSEMBLY VERSIONS.
SEE PARTS LIST FOR
EXACT DETAILS.

D

C

B

A

K

DCS M7847-0-1

(ARRAY)

TITLE		SIZE CODE	NUMBER	REV.
UNIBUS MOS MEMORY		DCS	M7847-0-1	K
SCALE	SHEET 16 OF 16	DIST		

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B-TC-MM11-DP-3

D-DD-MM11-DP
D-CS-G652-Ø-1
D-TD-MM11-DP-2
D-UA-MM11-DP-Ø
B-DD-H222-Ø
D-CS-5411554-Ø-1
D-UA-H222-A-Ø
D-CS-M785Ø-0-1
D-UA-5411554-O-O
A-PL-5411554-O-O

DRAWING DIRECTORY
16K X 18 BIT CORE MEMORY
TIMING DIAGRAM
MM11-DP MEMORY MODULE ASSY
DRAWING DIRECTORY
H222 STACK BOARD
H222 CORE MEMORY STACK ASSY
PARITY CONTROLLER
16K MEMORY STACK
16K MEM STK PARTS LIST

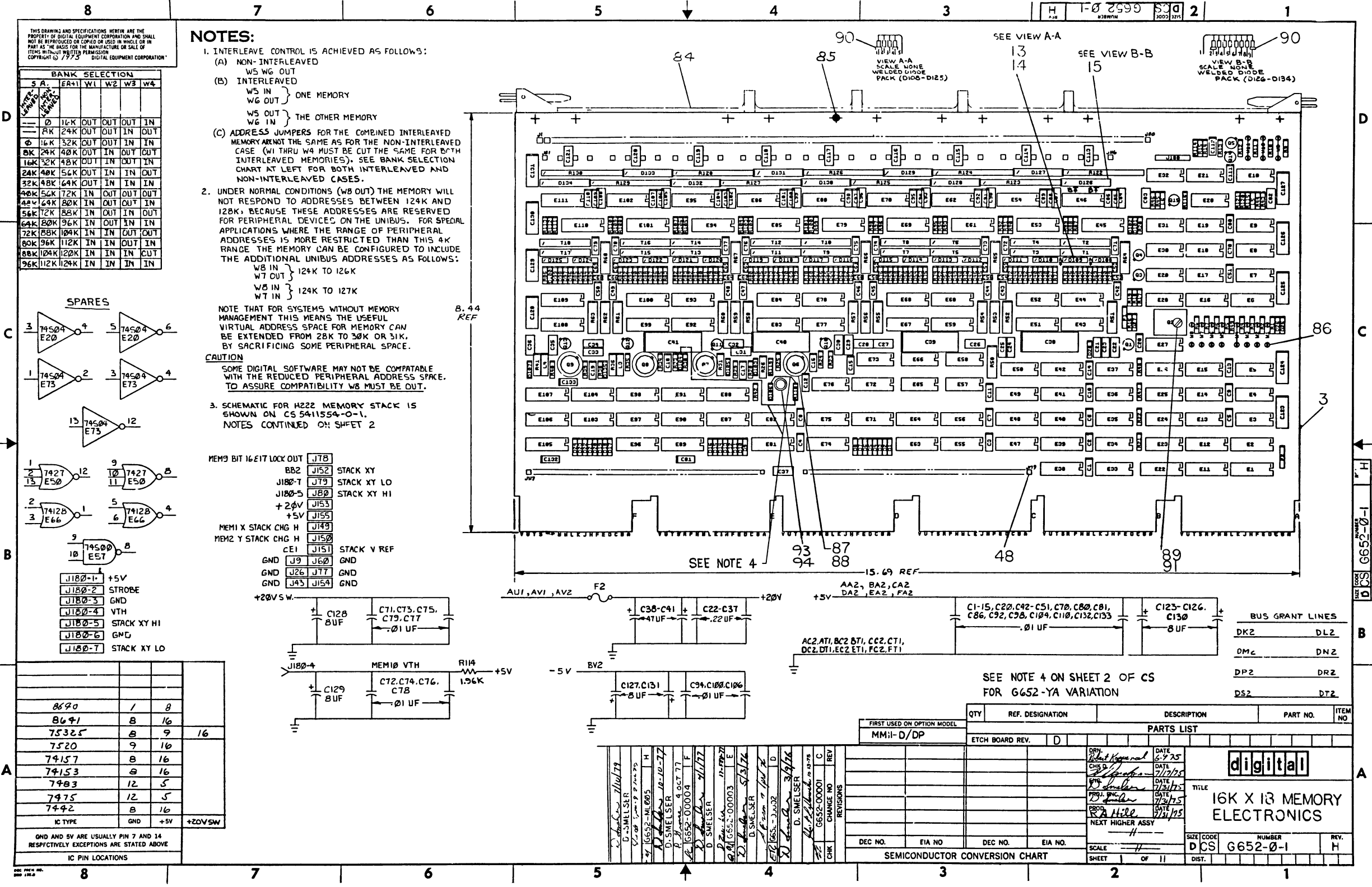
MM11-DP
MM11-E

Digital Equipment Corporation

PRINT SET ORDER NO.
MP 00032

REVISIONS			USED ON OPTION/MODEL		DRN.	DATE	TITLE:										
DATE	CHG. NO.	REV.															
MAY-76	MM11DP-1	A				W. LUFKIN	24/06/75	MM11-DP MEMORY MODULE									
FEB-77	MM11DP-2	B				CHK'D	DATE										
						1/1/77	24/06/75										
						PROJ. ENG.	DATE										
						D. LUFKIN	10/28/75	SIZE	CODE	NUMBER				REV.			
						FIELD SERV.	DATE	B	TC	MM11-DP - 3				B			
			SHEET I OF 1					DIST.									

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NOTES:

1. INTERLEAVE CONTROL IS ACHIEVED AS FOLLOWS:
(A) NON-INTERLEAVED
W5 W6 OUT
(B) INTERLEAVED
W5 IN
W6 OUT } ONE MEMORY
W5 OUT
W6 IN } THE OTHER MEMORY

(C) ADDRESS JUMPERS FOR THE COMBINED INTERLEAVED MEMORY ARE NOT THE SAME AS FOR THE NON-INTERLEAVED CASE (W1 THRU W4 MUST BE CUT THE SAME FOR BOTH INTERLEAVED MEMORIES). SEE BANK SELECTION CHART AT LEFT FOR BOTH INTERLEAVED AND NON-INTERLEAVED CASES.

2. UNDER NORMAL CONDITIONS (W6 OUT) THE MEMORY WILL NOT RESPOND TO ADDRESSES BETWEEN 124K AND 128K, BECAUSE THESE ADDRESSES ARE RESERVED FOR PERIPHERAL DEVICES ON THE UNIBUS. FOR SPECIAL APPLICATIONS WHERE THE RANGE OF PERIPHERAL ADDRESSES IS MORE RESTRICTED THAN THIS 4K RANGE THE MEMORY CAN BE CONFIGURED TO INCLUDE THE ADDITIONAL UNIBUS ADDRESSES AS FOLLOWS:
W6 IN } 124K TO 126K
W7 OUT }
W6 IN } 124K TO 127K
W7 IN }

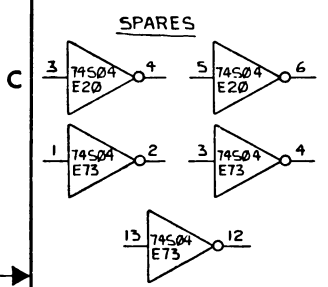
NOTE THAT FOR SYSTEMS WITHOUT MEMORY MANAGEMENT THIS MEANS THE USEFUL VIRTUAL ADDRESS SPACE FOR MEMORY CAN BE EXTENDED FROM 28K TO 30K OR 31K, BY SACRIFICING SOME PERIPHERAL SPACE.

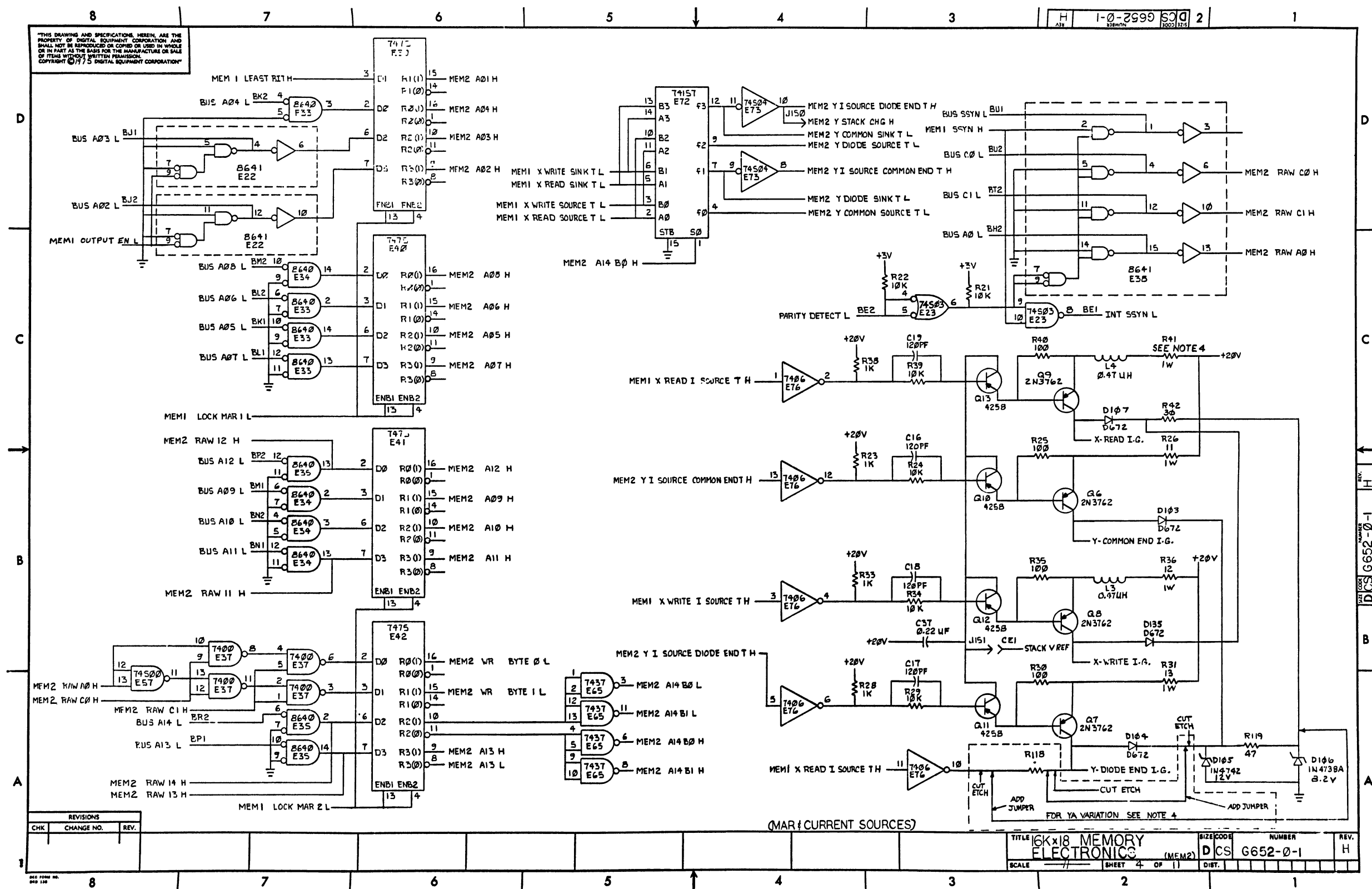
CAUTION
SOME DIGITAL SOFTWARE MAY NOT BE COMPATIBLE WITH THE REDUCED PERIPHERAL ADDRESS SPACE. TO ASSURE COMPATIBILITY W6 MUST BE OUT.

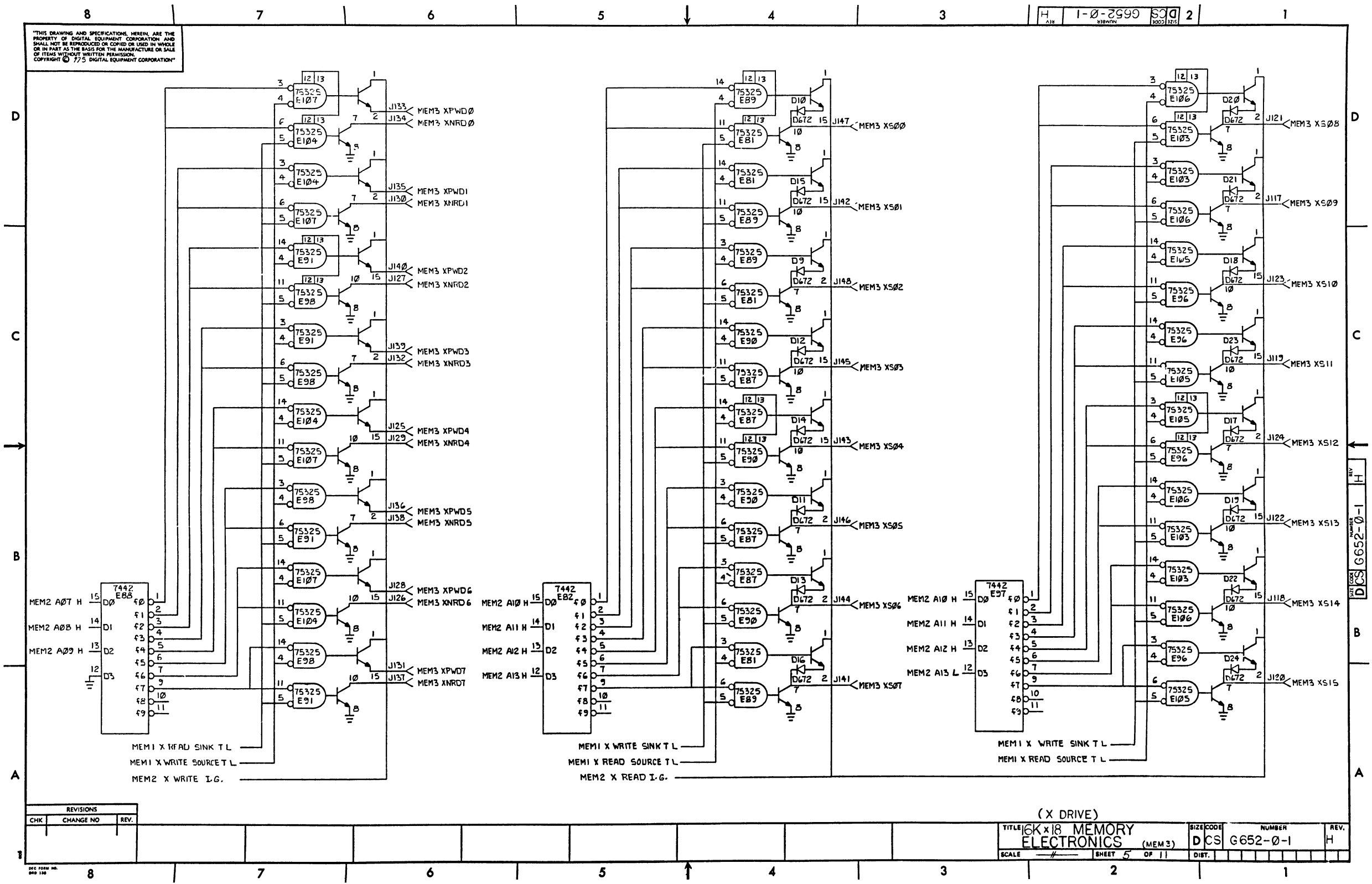
3. SCHEMATIC FOR H222 MEMORY STACK IS SHOWN ON CS 541155A-0-1.
NOTES CONTINUED ON SHEET 2

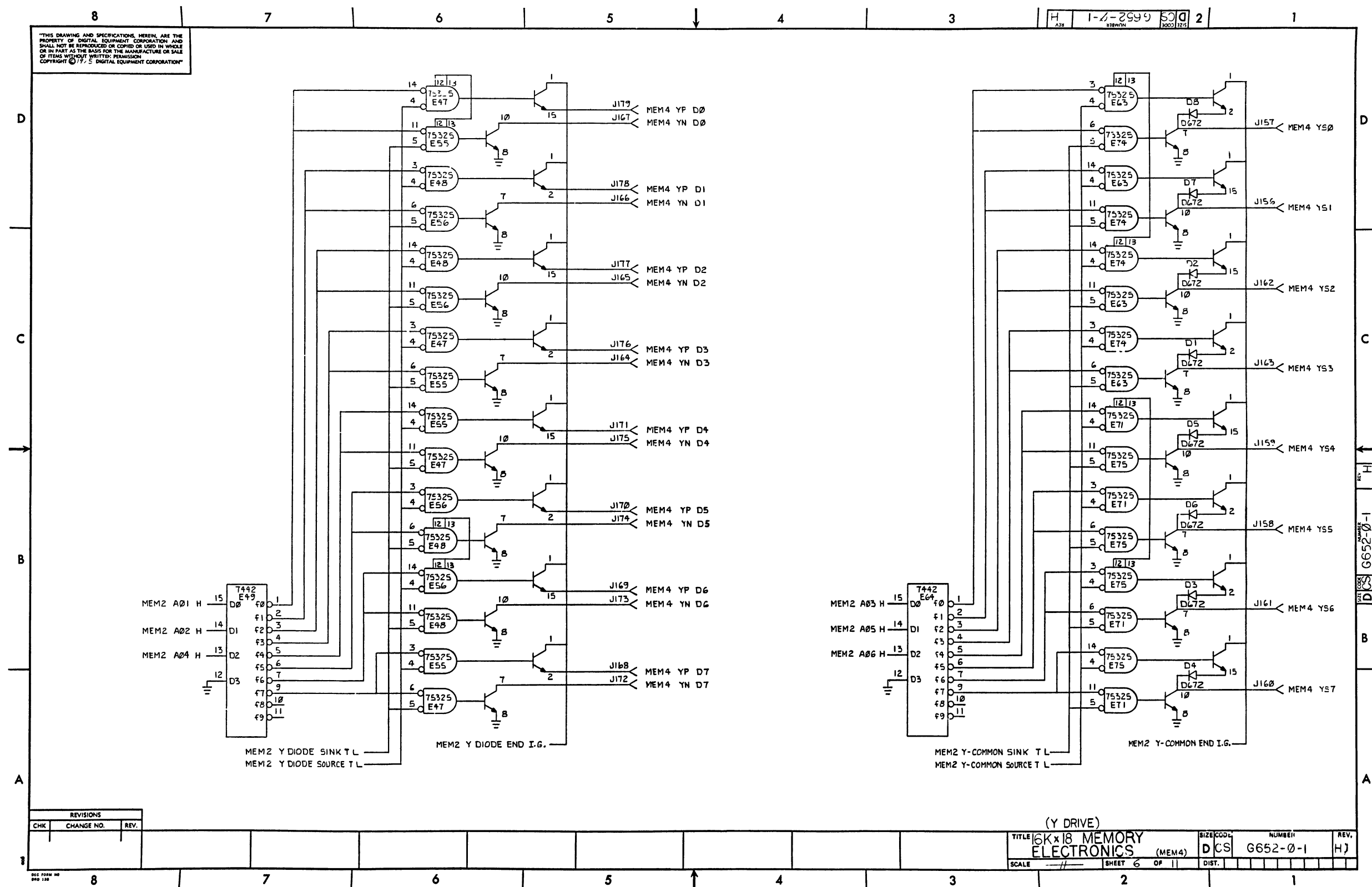
BANK SELECTION

S.A.	EA+1	W1	W2	W3	W4
0	16K	OUT	OUT	OUT	IN
1	16K	24K	OUT	OUT	IN
2	16K	32K	OUT	OUT	IN
3	16K	40K	OUT	IN	OUT
4	16K	32K	48K	OUT	IN
5	16K	48K	OUT	IN	OUT
6	32K	48K	64K	OUT	IN
7	32K	48K	64K	OUT	IN
8	48K	56K	72K	IN	OUT
9	48K	64K	80K	IN	OUT
10	56K	72K	88K	IN	OUT
11	56K	72K	88K	IN	OUT
12	64K	80K	96K	IN	OUT
13	64K	80K	96K	IN	OUT
14	72K	88K	104K	IN	OUT
15	72K	88K	104K	IN	OUT
16	80K	96K	112K	IN	OUT
17	80K	96K	112K	IN	OUT
18	88K	104K	120K	IN	OUT
19	88K	104K	120K	IN	OUT
20	96K	112K	124K	IN	IN
21	96K	112K	124K	IN	IN



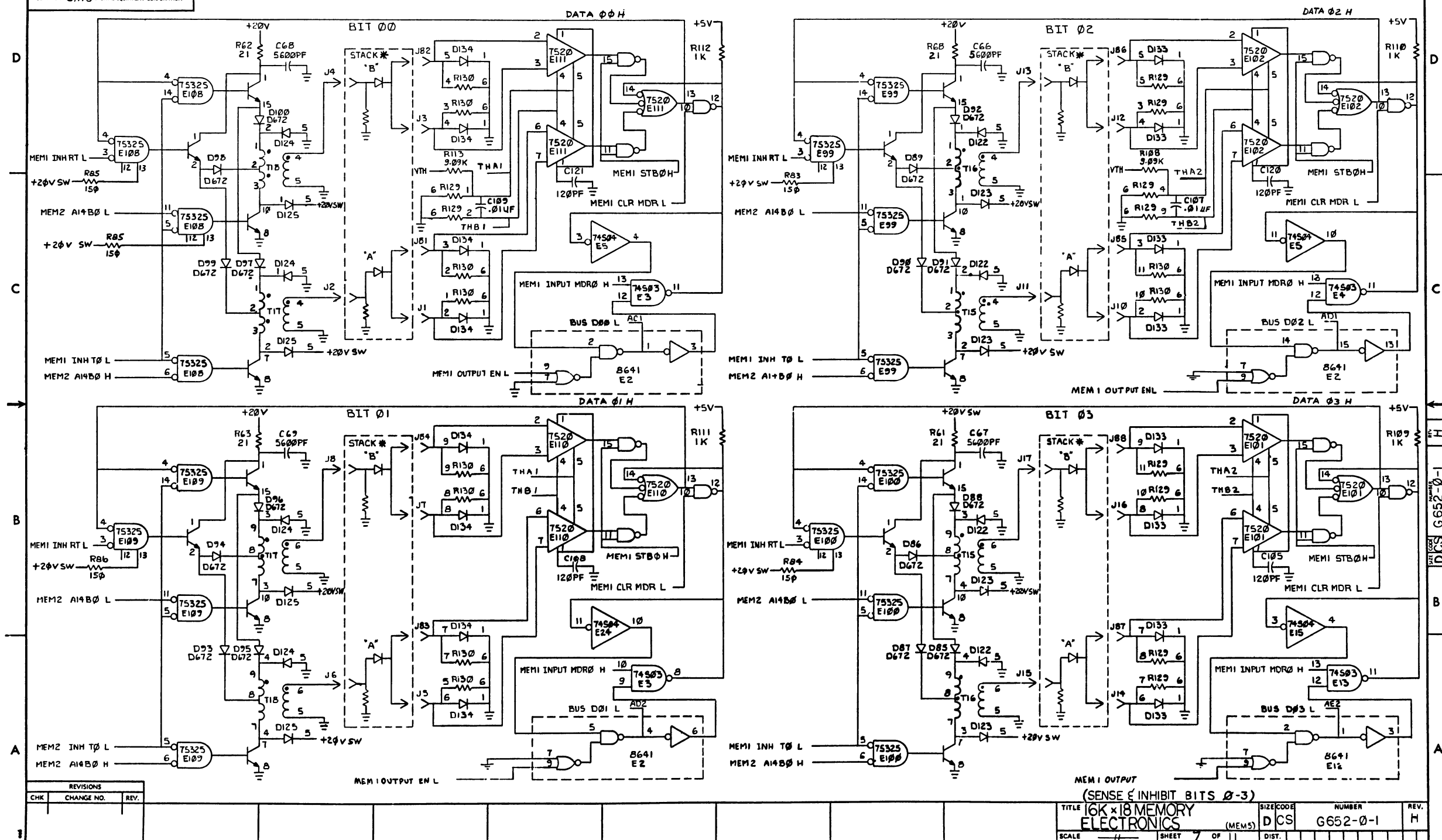


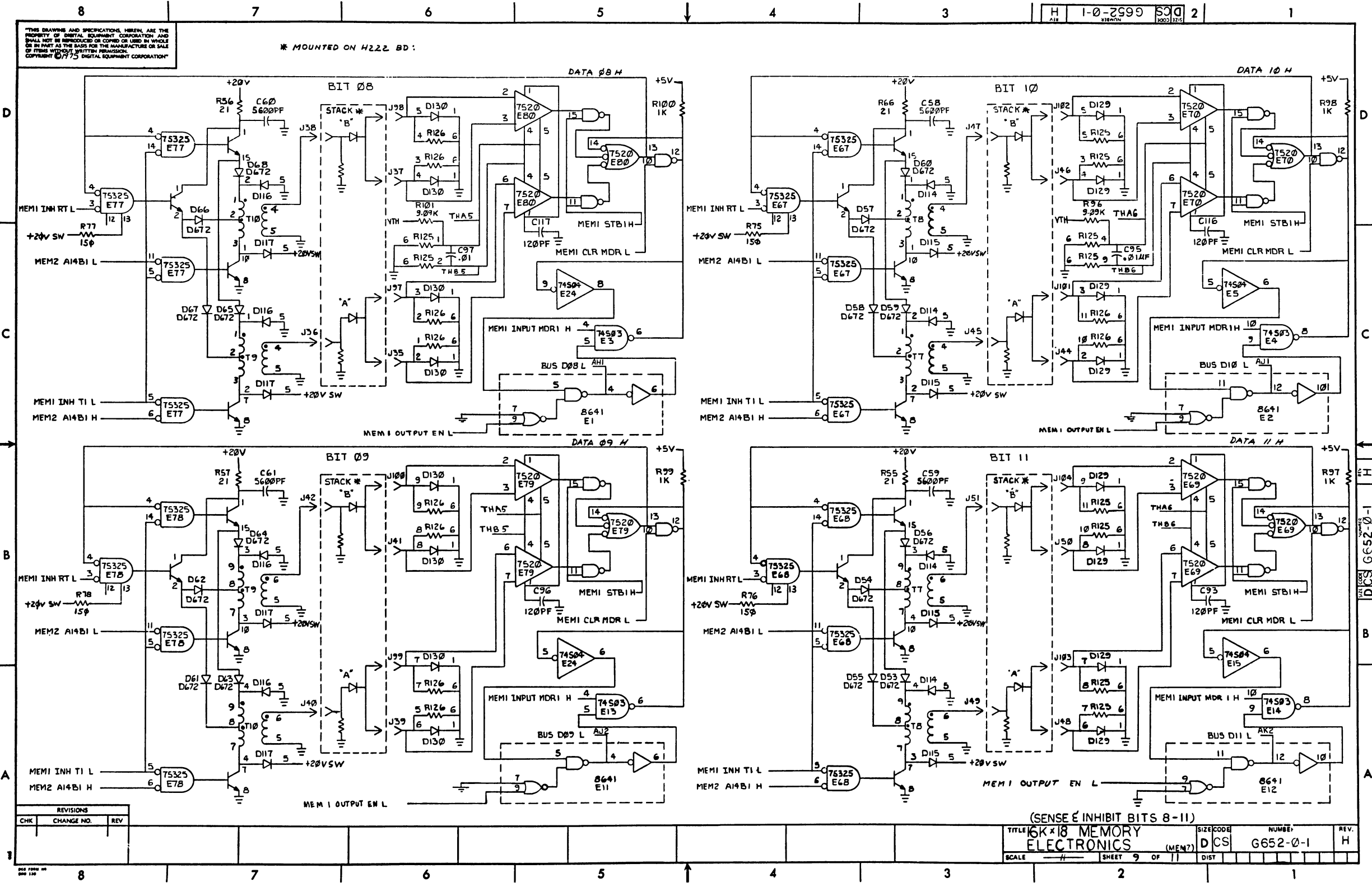




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* MOUNTED ON H222 BD:





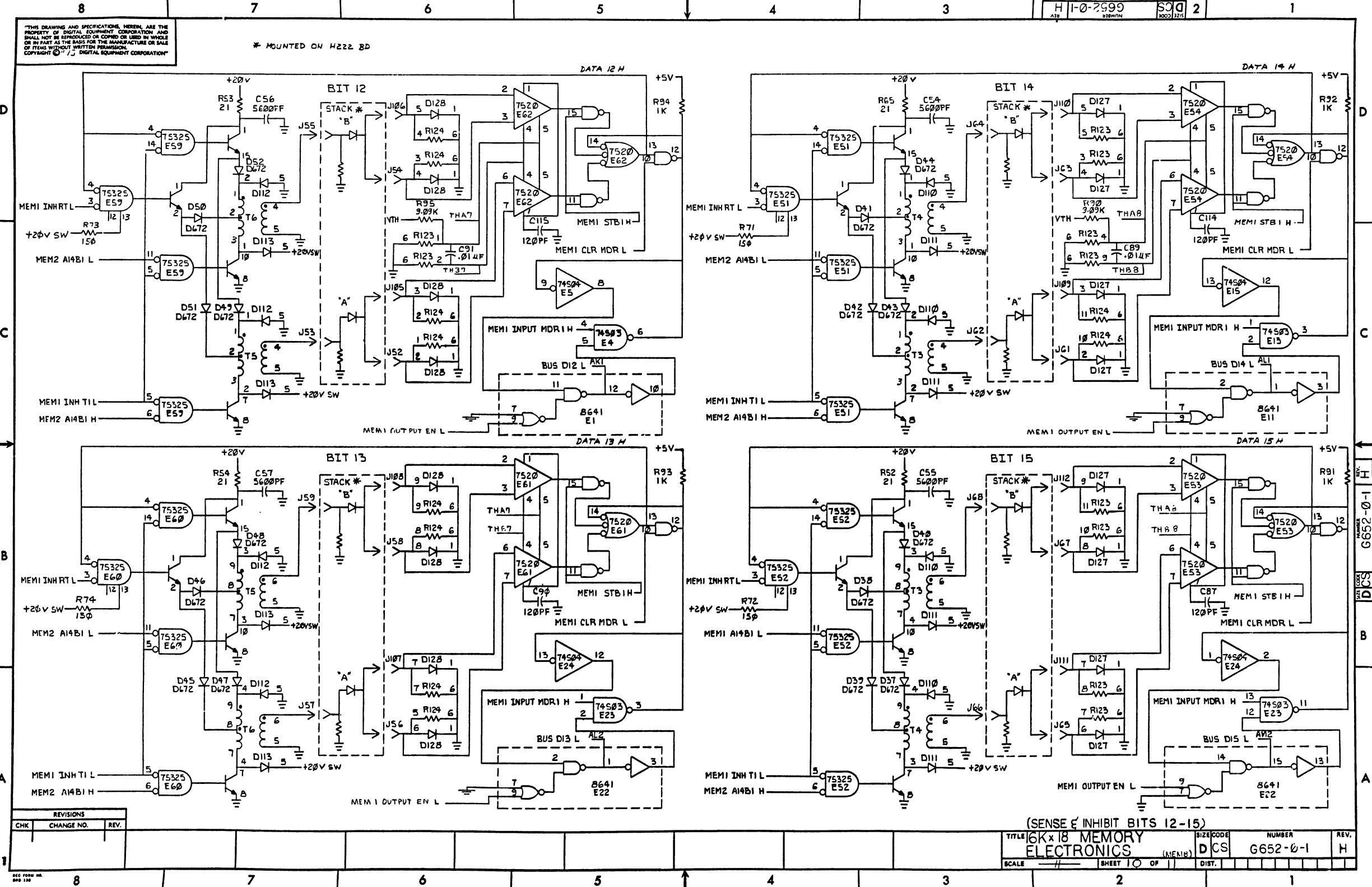
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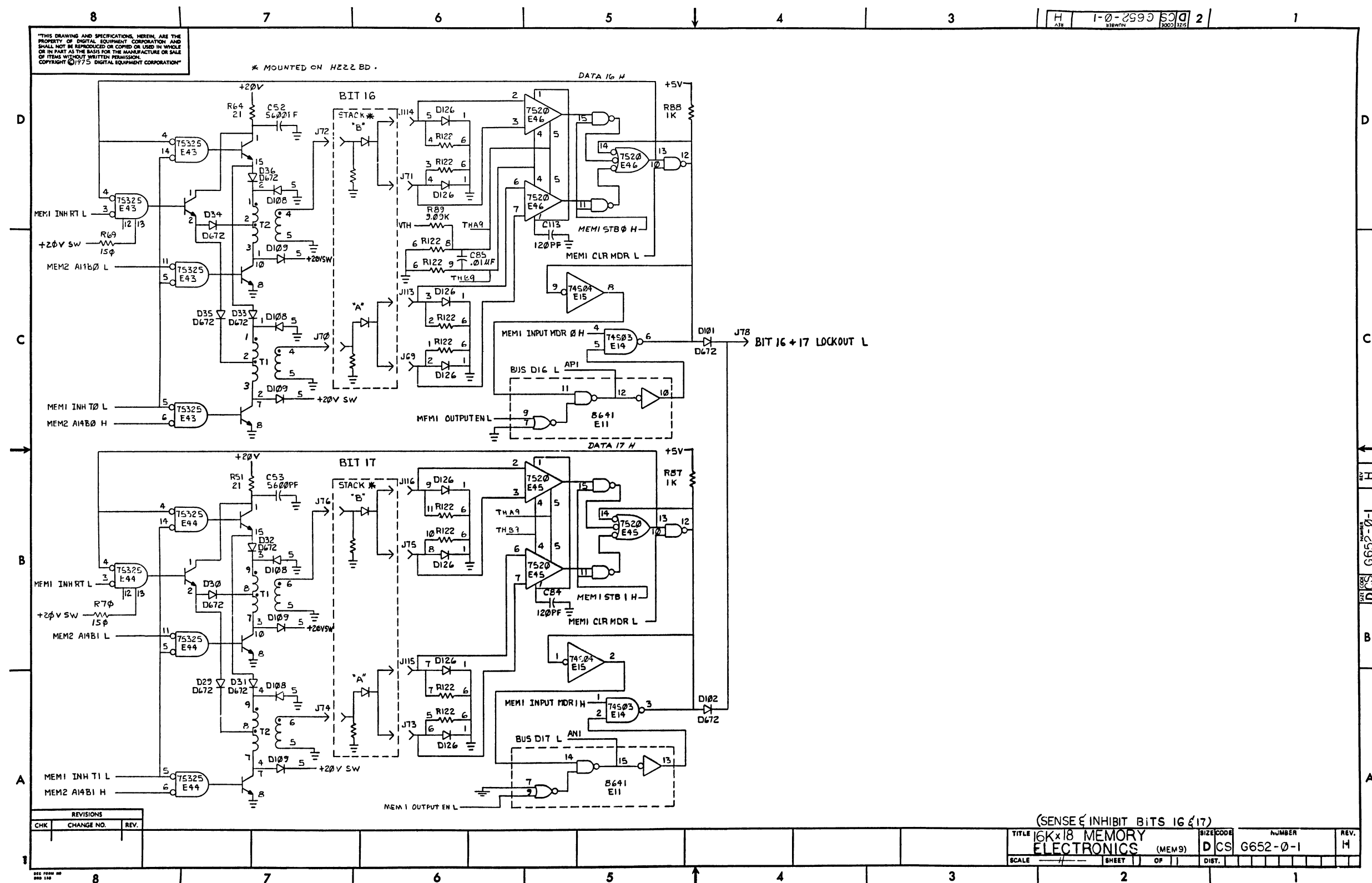
* MOUNTED ON H222 BD:

1-0-2599 2

REVISIONS		
CHK	CHANGE NO.	REV

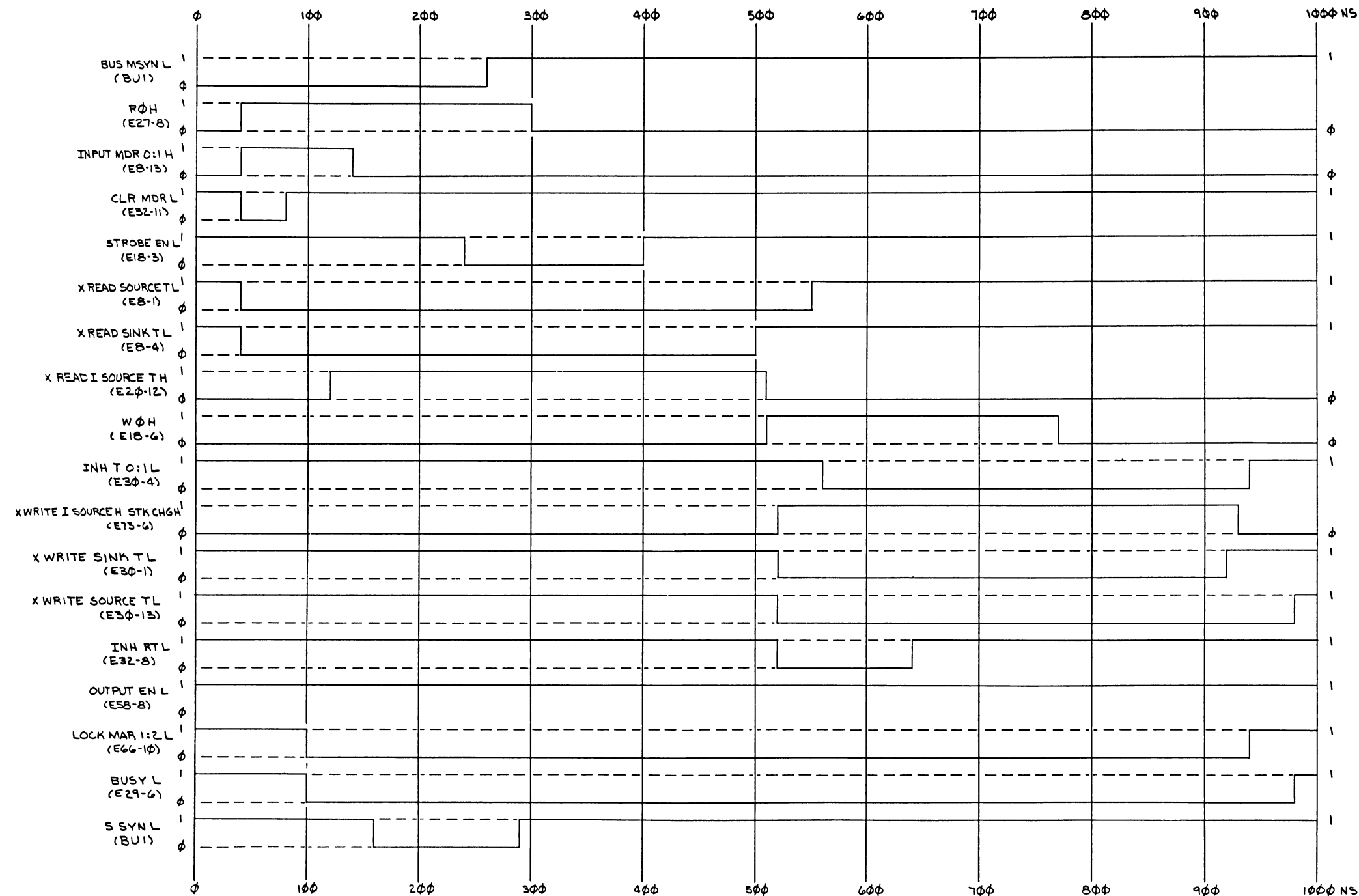
TITLE		16K x 18 MEMORY ELECTRONICS	SIZE CODE	D CS	NUMBER	G 652-0-1	REV.	H
SCALE	#	SHEET	9	OF	11	DIST		





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REVISIONS	
CHK	CHANGE NO.
REV	

DEC FORM NO.
DRD 102 D

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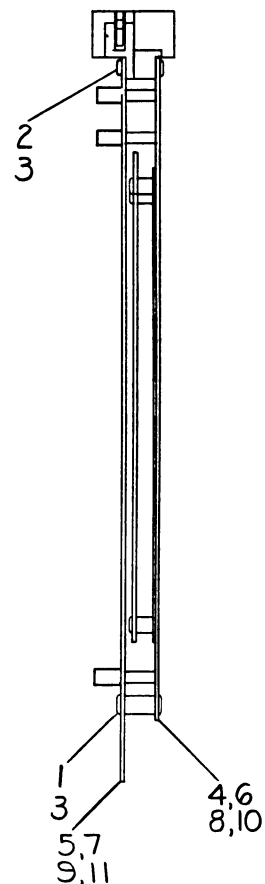
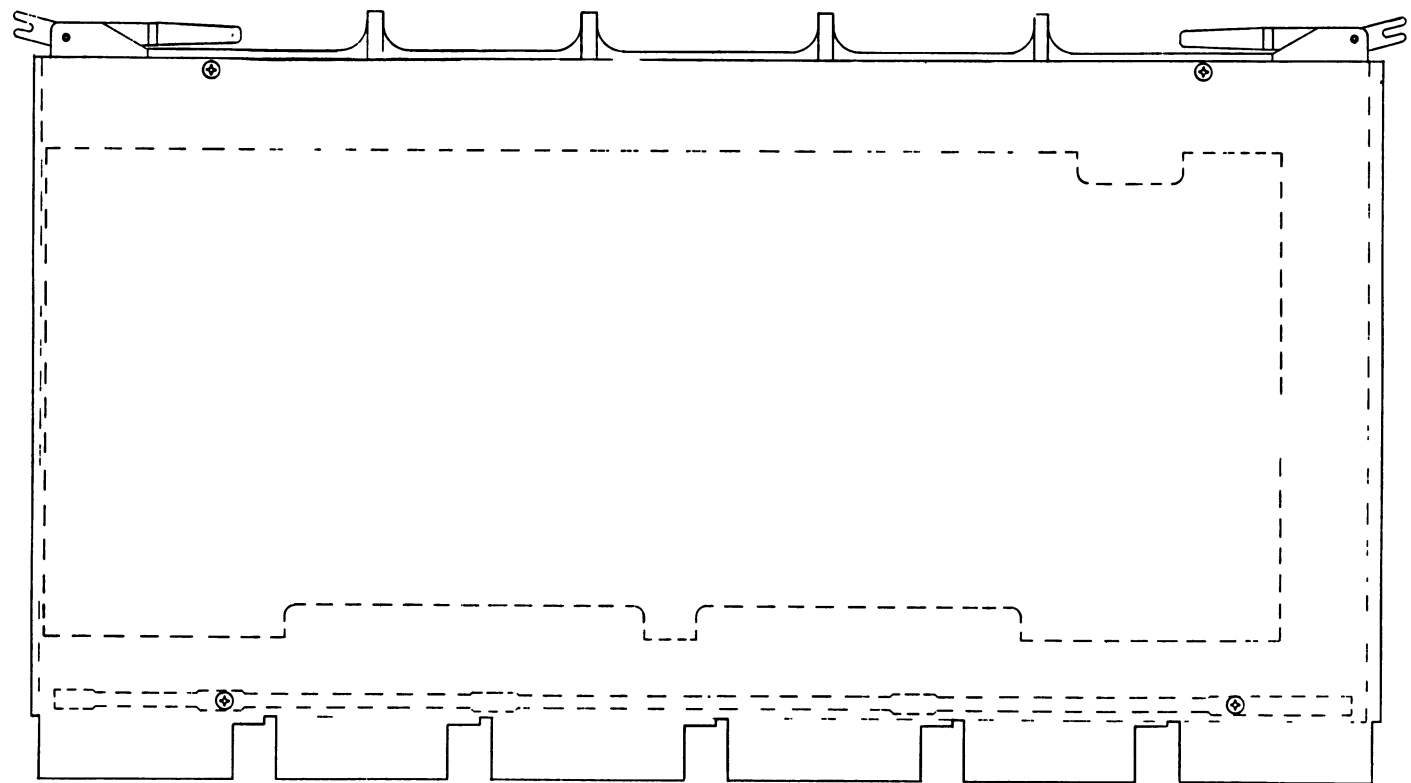
DRN	W. LUFKIN	4/26/75	FIRST USED ON		digit
CHK'D	<i>W. Lufkin</i>	2/26/75	MMII-DP		
ENG	<i>D. Lufkin</i>	10/20/75	TITLE		
PROJ ENG	<i>D. Lufkin</i>	1/24/75	MMII-DP		
PROD	<i>R. A. Hulse</i>	25 Oct 75	TIMING DIAGRAM		
NEXT HIGHER ASSY					
B-DD-MMII-DP			SIZE	CODE	NUMBER
SCALE <i>+</i> <i>+</i>			D	TD	MMII-DP-2
SHEET 1 OF 2			DIST		

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LEGEND		
VARIATION	DESCRIPTION	DWG. NUMBER
MM11-D WILL INCLUDE MODULE COMBINATION C OR D	D G652-YA 16K x 18 CORE MEM. H222-YB STACK BOARD (16 BIT)	D-CS-G652-0-1 D-UA-H222-B-0
	C G652 16K x 18 CORE MEM. H222-B STACK BOARD (16 BIT)	D-CS-G652-0-1 D-UA-H222-B-0
MM11 DP WILL INCLUDE MODULE COMBINATION A OR B	B G652-YA 16K x 18 CORE MEM. H222-YA STACK BOARD (18 BIT)	D-CS-G652-0-1 D-UA-H222-A-0
	A G652 16K x 18 CORE MEM. H222-A STACK BOARD (18 BIT)	D-CS-G652-0-1 D-UA-H222-A-0

NOTE :

- MM11-DP MEMORY MODULE ASSEMBLY (16K x 18 BIT) MAY BE SUBSTITUTED FOR MM11-D MODULE ASSEMBLY (16K x 16 BIT).
- G652-YA'S WILL NOT OPERATE WITH H222'S.
- H222-YA'S & YB'S WILL NOT OPERATE WITH G652'S.



4	4	WASHER, LOCK #2 INT TOOTH	9006631-00	6
2	2	SCR, PHL PAN HD, SS #2-56 x .31 LG	9006002-01	5
2	2	SCR, PHL PAN HD, SS #2-56 x .19	9006000-01	4
1	1	16K x 18 CORE MEMORY (G652)	D-CS-G652-0-1	3
1	1	H222 STACK BOARD (16 BIT)	D-UA-H222-B-0	2
1	1	H222 STACK BOARD (18 BIT)	D-UA-H222-A-0	1

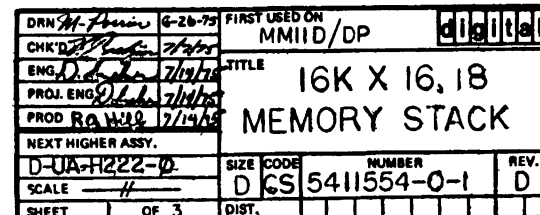
		DESCRIPTION		DWG / PART NO		ITEM NO.													
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																			
MM - D	MM - DP	ANGLES 30° 30'		CLASS OF ACCURACY				NOMINAL DIMENSION RANGE INCHES											
		SURFACE QUALITY IN ✓ MICROINCHES		(CHECK ONE)		OVER 0 TO 0.2		OVER 0.2 TO 1.2		OVER 1.2 TO 4.0		OVER 4.0 TO 12.0		OVER 12.0 TO 40.0		OVER 40.0 TO 80.0		OVER 80.0 TO 160.0	
						MEDIUM ☐		± 0.04		± 0.08		± 0.12		± 0.16		± 0.24		± 0.4	
						PREFERRED ☐		± 0.12		± 0.16		± 0.26		± 0.4		± 0.63		± 1.0	
QUANTITY & VARIATION																			

THIRD ANGLE PROJECTION	DRN W. LUFKIN 7/24/75	FIRST USED ON	MM11-DP
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D 8/2/75	TITLE	MM11-DP MEMORY MODULE ASSEMBLY
DO NOT SCALE DWG	ENG. 8/2/75	SIZE CODE	B-DD-MM11-DP
MATERIAL SEE PARTS LIST	PROJ. ENG. 8/2/75	NUMBER	D UA MM11-DP-0
FINISH	PROD. 8/2/75	REV.	A
SCALE 1/1	SHEET 1 OF 1	DIST.	

REV.	CHANGE NO.	DATE
A	1/1	MM11-DP-00002
B	2/1	22 FEB 77
C	3/1	3/18/77

[illegible]

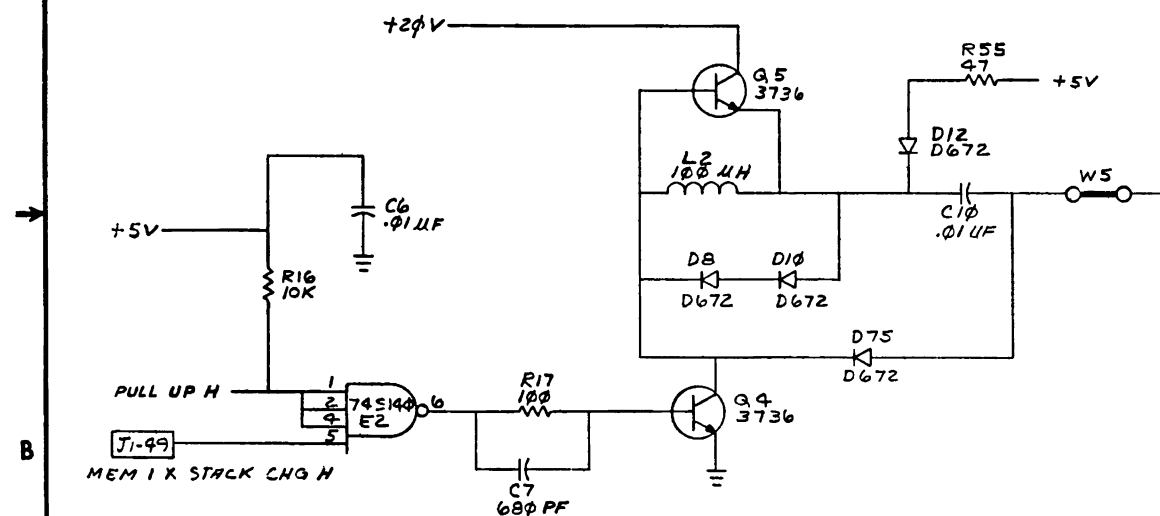
NOTE:
PREFIX FOR J156-J179 IS MEM4.



KEYWORDS	CHRG	CHANGE NO.	REV.
	52	5411554 - 00001	C
747-2300000 6-9-76			
D. SMELSER			
6/16/76			
D			
5411554 - 00002			
6/23/76 23-00077			
D. SMELSER			
3/30/77			

"X" DIODE MATRIX

NOTE:
PREFIX FOR J117-J148 IS MEM9.

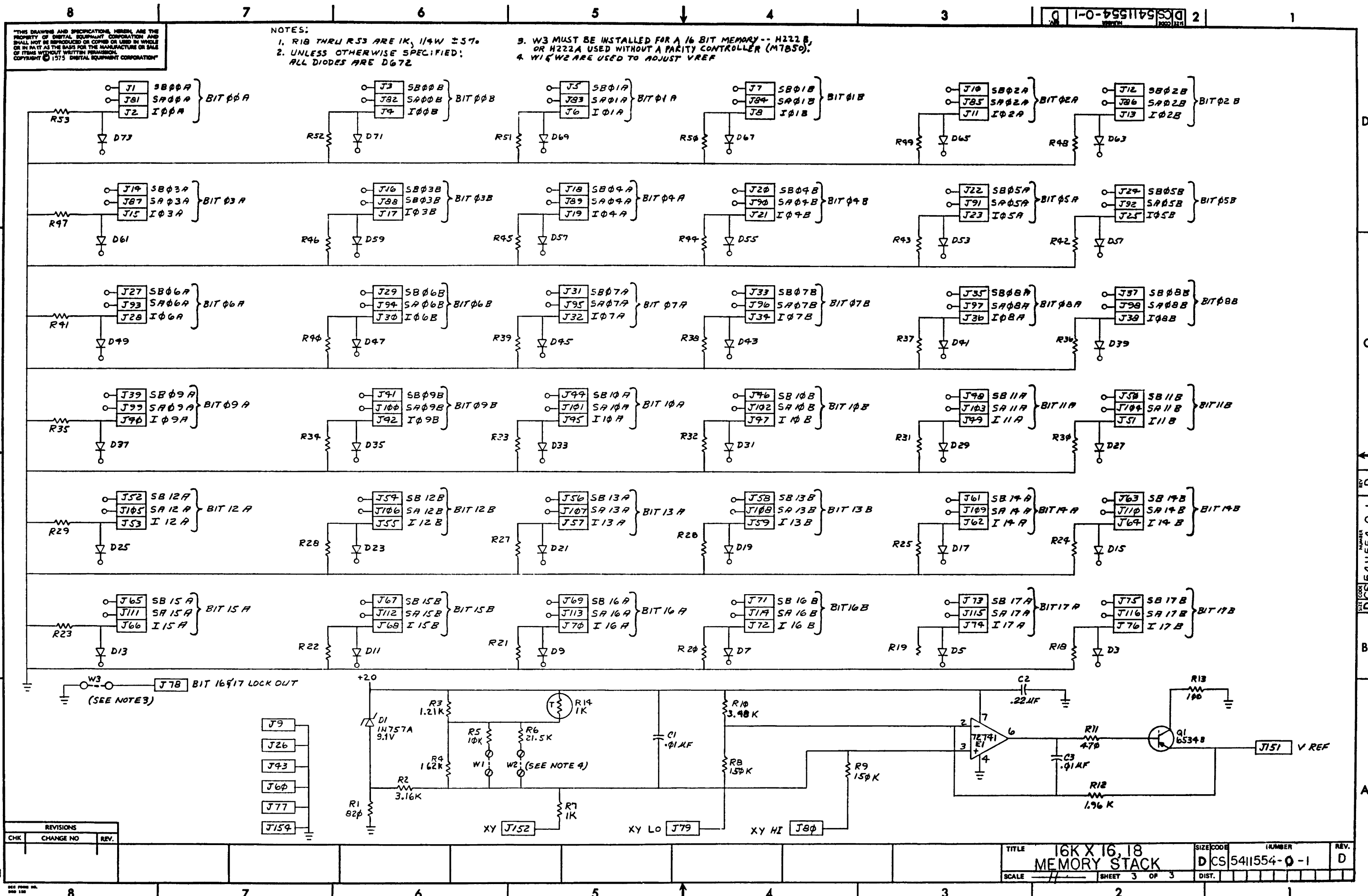


	J120	J118	J122	J124	J119	J123	J117	J121	J141	J144	J146	J143	J145	J148	J142	J147	
	X515	X514	X513	X512	X511	X510	X59	X58	X37	X36	X35	X34	X33	X32	X31	X30	
D22	6-060	7-036	12-032	2-048	3-040	8-040	9-036	11-032	13-028	1-024	7-020	11-016	8-012	2-08	8-040	9-040	J133 XPW D0
																	J134 XNR D0
D42	7-0610	5-057	8-033	2-049	8-045	11-041	9-037	8-033	7-029	5-025	3-021	2-017	12-013	11-09	9-05	8-010	J135 XPW D1
																	J136 XNR D1
D26	2-062	3-058	5-054	7-050	12-046	11-042	9-038	8-034	2-030	7-026	5-022	3-018	12-014	11-010	9-06	8-020	J140 XPW D2
																	J127 XNR D2
D30	7-063	5-059	3-055	2-051	12-047	11-043	9-039	8-035	7-031	5-027	3-023	2-019	12-015	11-011	9-07	8-030	J139 XPW D3
																	J132 XNR D3
D28	8-064	12-068	11-072	9-076	5-080	3-084	2-088	7-092	9-096	8-0100	2-0140	12-0180	11-0112	7-0116	5-0120	3-0124	J125 XPW D4
																	J129 XNR D4
D48	8-065	9-069	11-073	12-077	2-081	3-085	5-089	7-093	8-097	9-0101	11-0105	12-0109	2-0113	3-0117	5-0121	7-0125	J136 XPW D5
																	J138 XNR D5
D30	8-066	9-070	11-074	12-078	3-082	5-086	7-090	2-094	8-098	9-0102	11-0106	12-0110	3-0114	7-0118	5-0122	2-0126	J128 XPW D6
																	J126 XNR D6
D44	8-067	9-071	11-075	12-079	2-083	3-087	5-091	7-095	8-099	9-0103	11-0107	12-0111	2-0115	3-0119	5-0123	7-0127	J131 XPW D7
																	J137 XNR D7
	6	8	3	7	7	2	9	4	9	6	3	7	2	7	8	2	
	R62								R59								
	R61	6	8	3	7	7	2	9	4	9	6	3	7	2	7	8	2
									R60	9	6	3	7	2	7	8	2

REVISIONS		
CHK	CHANGE NO.	REV.

OLD FORM NO.
500-108

TITLE	6K X 16.18	SIZE/CODE	NUMBER	REV.
MEMORY STACK		D C S	5411554-0-1	D
SCALE $\frac{1}{1}$	SHEET 2 OF 3	DIST.		

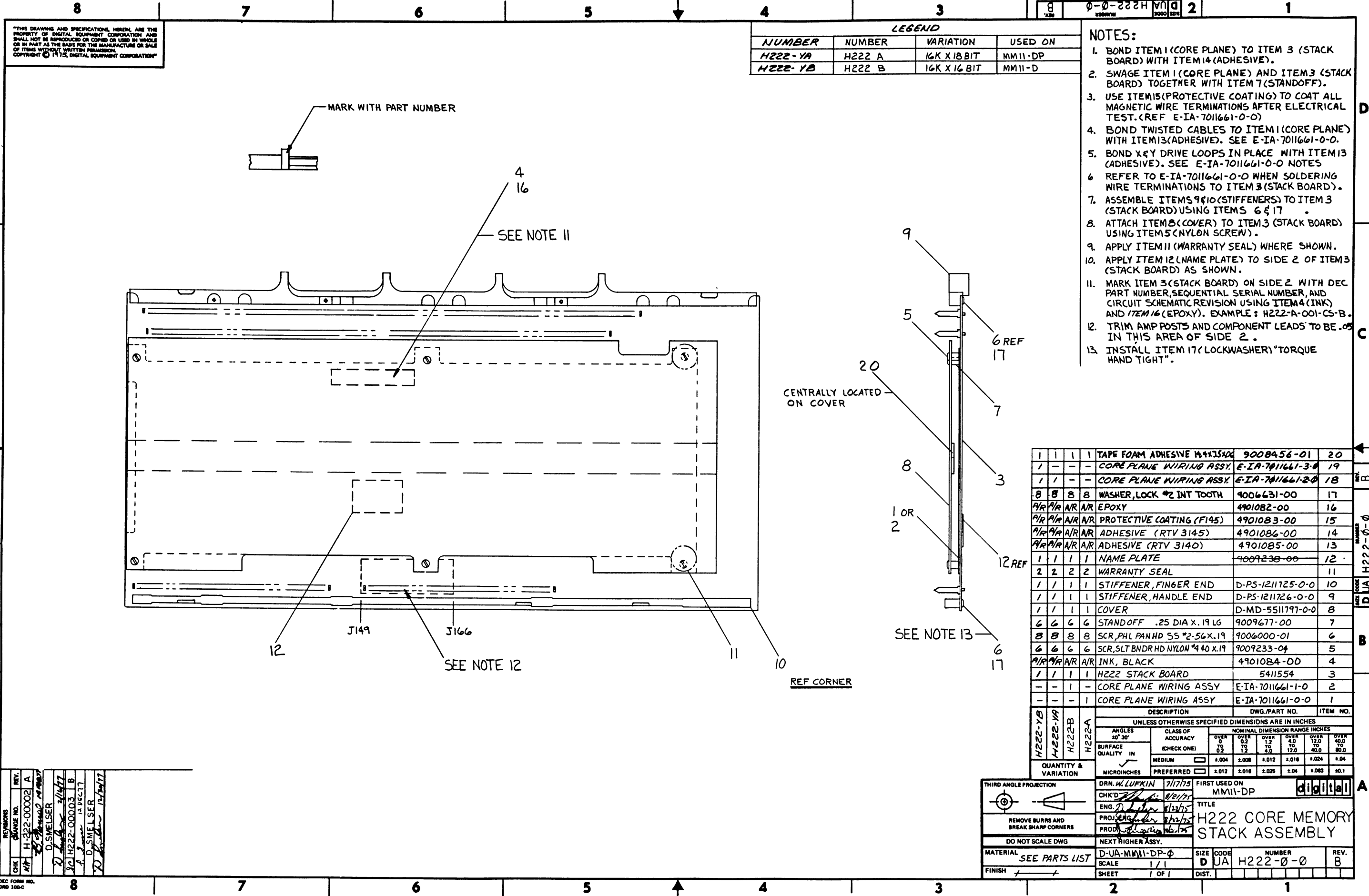


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- NOTES:
1. R18 THRU R53 ARE 1K, 1/4W ±5%.
 2. UNLESS OTHERWISE SPECIFIED: ALL DIODES ARE D672.
 3. W3 MUST BE INSTALLED FOR A 16 BIT MEMORY -- H222B, OR H222A USED WITHOUT A PARITY CONTROLLER (MT850).
 4. W1 & W2 ARE USED TO ADJUST VREF.

REVISIONS		
CHK	CHANGE NO	REV.

TITLE		SIZE CODE	NUMBER	REV.
16K X 16, 18		D	CS 5411554-0-1	D
MEMORY STACK				
SCALE		SHEET	3 OF 3	



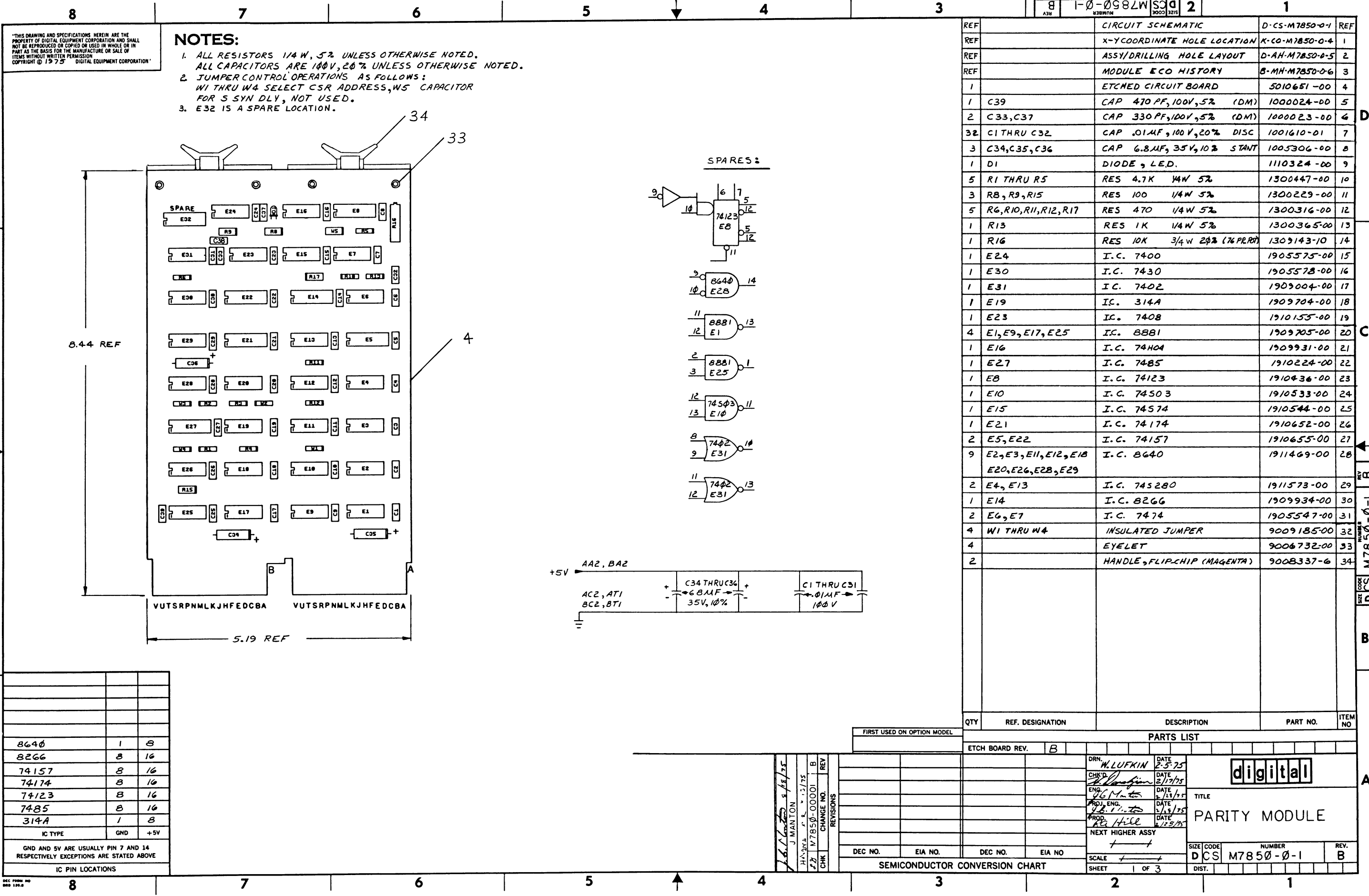
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LEGEND			
NUMBER	NUMBER	VARIATION	USED ON
H222-YA	H222 A	16K X 18 BIT	MM11-DP
H222-YB	H222 B	16K X 16 BIT	MM11-D

- NOTES:
- BOND ITEM 1 (CORE PLANE) TO ITEM 3 (STACK BOARD) WITH ITEM 14 (ADHESIVE).
 - SWAGE ITEM 1 (CORE PLANE) AND ITEM 3 (STACK BOARD) TOGETHER WITH ITEM 7 (STANDOFF).
 - USE ITEM 15 (PROTECTIVE COATING) TO COAT ALL MAGNETIC WIRE TERMINATIONS AFTER ELECTRICAL TEST. (REF E-IA-7011661-0-0)
 - BOND TWISTED CABLES TO ITEM 1 (CORE PLANE) WITH ITEM 13 (ADHESIVE). SEE E-IA-7011661-0-0.
 - BOND X & Y DRIVE LOOPS IN PLACE WITH ITEM 13 (ADHESIVE). SEE E-IA-7011661-0-0 NOTES.
 - REFER TO E-IA-7011661-0-0 WHEN SOLDERING WIRE TERMINATIONS TO ITEM 3 (STACK BOARD).
 - ASSEMBLE ITEMS 9 & 10 (STIFFENERS) TO ITEM 3 (STACK BOARD) USING ITEMS 6 & 17.
 - ATTACH ITEM 8 (COVER) TO ITEM 3 (STACK BOARD) USING ITEM 5 (NYLON SCREW).
 - APPLY ITEM 11 (WARRANTY SEAL) WHERE SHOWN.
 - APPLY ITEM 12 (NAME PLATE) TO SIDE 2 OF ITEM 3 (STACK BOARD) AS SHOWN.
 - MARK ITEM 3 (STACK BOARD) ON SIDE 2 WITH DEC PART NUMBER, SEQUENTIAL SERIAL NUMBER, AND CIRCUIT SCHEMATIC REVISION USING ITEM 4 (INK) AND ITEM 16 (EPOXY). EXAMPLE: H222-A-001-CS-B.
 - TRIM AMP POSTS AND COMPONENT LEADS TO BE .05 IN THIS AREA OF SIDE 2.
 - INSTALL ITEM 17 (LOCKWASHER) "TORQUE HAND TIGHT".

1	1	1	1	TAPE FOAM ADHESIVE 1/4 X 1/2 X 1/8	9008456-01	20
1	-	-	-	CORE PLANE WIRING ASSY	E-IA-7011661-3-0	19
1	1	-	-	CORE PLANE WIRING ASSY	E-IA-7011661-2-0	18
8	8	8	8	WASHER, LOCK #2 INT TOOTH	9006631-00	17
A/R	A/R	A/R	A/R	EPOXY	4901082-00	16
A/R	A/R	A/R	A/R	PROTECTIVE COATING (F145)	4901083-00	15
A/R	A/R	A/R	A/R	ADHESIVE (RTV 3145)	4901086-00	14
A/R	A/R	A/R	A/R	ADHESIVE (RTV 3140)	4901085-00	13
1	1	1	1	NAME PLATE	9009238-00	12
2	2	2	2	WARRANTY SEAL		11
1	1	1	1	STIFFENER, FINGER END	D-PS-1211725-0-0	10
1	1	1	1	STIFFENER, HANDLE END	D-PS-1211726-0-0	9
1	1	1	1	COVER	D-MD-5511797-0-0	8
6	6	6	6	STANDOFF .25 DIA X .19 LG	9009677-00	7
8	8	8	8	SCR, PHL PAN HD SS #2-56 X .19	9006000-01	6
6	6	6	6	SCR, SLT BNDR HD NYLON #440 X .19	9009233-04	5
A/R	A/R	A/R	A/R	INK, BLACK	4901084-DD	4
1	1	1	1	H222 STACK BOARD	5411554	3
-	-	1	-	CORE PLANE WIRING ASSY	E-IA-7011661-1-0	2
-	-	-	1	CORE PLANE WIRING ASSY	E-IA-7011661-0-0	1

H222-YB		H222-YA		H222-B		H222-A		DESCRIPTION		DWG. PART NO.		ITEM NO.																																			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																																															
ANGLES 20°-30°		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES																																											
				OVER 0 TO 0.5		OVER 0.5 TO 1.2		OVER 1.2 TO 4.0		OVER 4.0 TO 12.0		OVER 12.0 TO 40.0																																			
SURFACE QUALITY		IN		MEDIUM		±.004		±.008		±.012		±.016		±.024		±.04																															
MICROINCHES		PREFERRED		±.012		±.016		±.025		±.04		±.063		±.01																																	
PROJECTION								DRN. W. LUFKIN 7/17/75								FIRST USED ON																															
								CHK'D <i>[Signature]</i> 8/21/75								MM11-DP								digital								A															
VE BURRS AND SHARP CORNERS								ENG. <i>[Signature]</i> 8/22/75								TITLE								H222 CORE MEMORY STACK ASSEMBLY																							
PROJ. <i>[Signature]</i> 8/22/75																																															
PROD. <i>[Signature]</i> 8/22/75																																															
T SCALE DWG								NEXT HIGHER ASSY.																																							
EE PARTS LIST								D-UA-MM11-DP-Ø								SIZE								CODE								NUMBER								REV.							
SCALE 1/1																D								UA								H222-Ø-Ø								B							
SHEET 1 OF 1																DIST.																															



REF		CIRCUIT SCHEMATIC	D-CS-M7850-0-1	REF
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M7850-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M7850-0-5	2
REF		MODULE ECO HISTORY	B-MH-M7850-0-6	3
1		ETCHED CIRCUIT BOARD	5010651-00	4
1	C39	CAP 470 PF, 100V, 5% (DM)	1000024-00	5
2	C33, C37	CAP 330 PF, 100V, 5% (DM)	1000023-00	6
32	C1 THRU C32	CAP .01µF, 100V, 20% DISC	1001610-01	7
3	C34, C35, C36	CAP 6.8µF, 35V, 10% STANT	1005306-00	8
1	D1	DIODE, L.E.D.	1110324-00	9
5	R1 THRU R5	RES 4.7K 1/4W 5%	1300447-00	10
3	R8, R9, R15	RES 100 1/4W 5%	1300229-00	11
5	R6, R10, R11, R12, R17	RES 470 1/4W 5%	1300316-00	12
1	R13	RES 1K 1/4W 5%	1300365-00	13
1	R16	RES 10K 3/4W 20% (76 PR. PR)	1303143-10	14
1	E24	I.C. 7400	1905575-00	15
1	E30	I.C. 7430	1905578-00	16
1	E31	I.C. 7402	1909004-00	17
1	E19	I.C. 314A	1909704-00	18
1	E23	I.C. 7408	1910155-00	19
4	E1, E9, E17, E25	I.C. 8881	1909705-00	20
1	E16	I.C. 74H04	1909931-00	21
1	E27	I.C. 7485	1910224-00	22
1	E8	I.C. 74123	1910436-00	23
1	E10	I.C. 74503	1910533-00	24
1	E15	I.C. 74574	1910544-00	25
1	E21	I.C. 74174	1910652-00	26
2	E5, E22	I.C. 74157	1910655-00	27
9	E2, E3, E11, E12, E18 E20, E26, E28, E29	I.C. 8640	1911469-00	28
2	E4, E13	I.C. 745280	1911573-00	29
1	E14	I.C. 8266	1909934-00	30
2	E6, E7	I.C. 7474	1905547-00	31
4	W1 THRU W4	INSULATED JUMPER	9009185-00	32
4		EYELET	9006732-00	33
2		HANDLE, FLIP-CHIP (MAGENTA)	9008337-6	34

8640	1	8
8266	8	16
74157	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	8
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTS ARE STATED ABOVE		
IC PIN LOCATIONS		

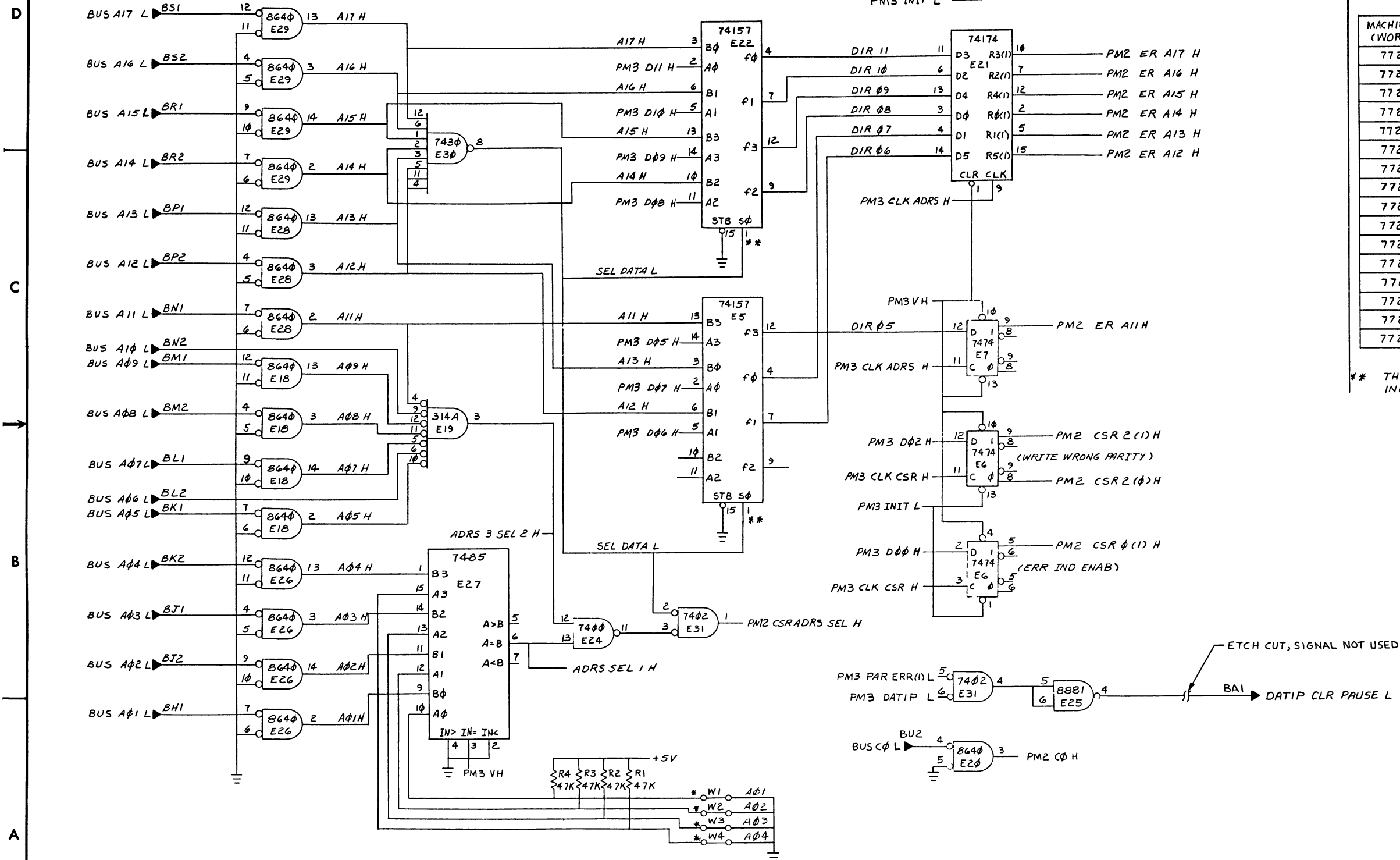
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NOTES:

* THE CSR REGISTER ADDRESS IS LOCATED BETWEEN 772100 AND 772136. IT IS SELECTED WITH JUMPERS W1 THRU W4. REMOVING A JUMPER SELECTS A "ONE" FOR THAT BIT POSITION. (*)

MACHINE ADDRESS (WORDS) 8	W4 A4	W3 A3	W2 A2	W1 A1
772100	IN	IN	IN	IN
772102	IN	IN	IN	OUT
772104	IN	IN	OUT	IN
772106	IN	IN	OUT	OUT
772110	IN	OUT	IN	IN
772112	IN	OUT	IN	OUT
772114	IN	OUT	OUT	IN
772116	IN	OUT	OUT	OUT
772120	OUT	IN	IN	IN
772122	OUT	IN	IN	OUT
772124	OUT	IN	OUT	IN
772126	OUT	IN	OUT	OUT
772130	OUT	OUT	IN	IN
772132	OUT	OUT	IN	OUT
772134	OUT	OUT	OUT	IN
772136	OUT	OUT	OUT	OUT

** THE "A" INPUTS ARE SELECTED WHEN THE SEL INPUT GOES LOW. (**)



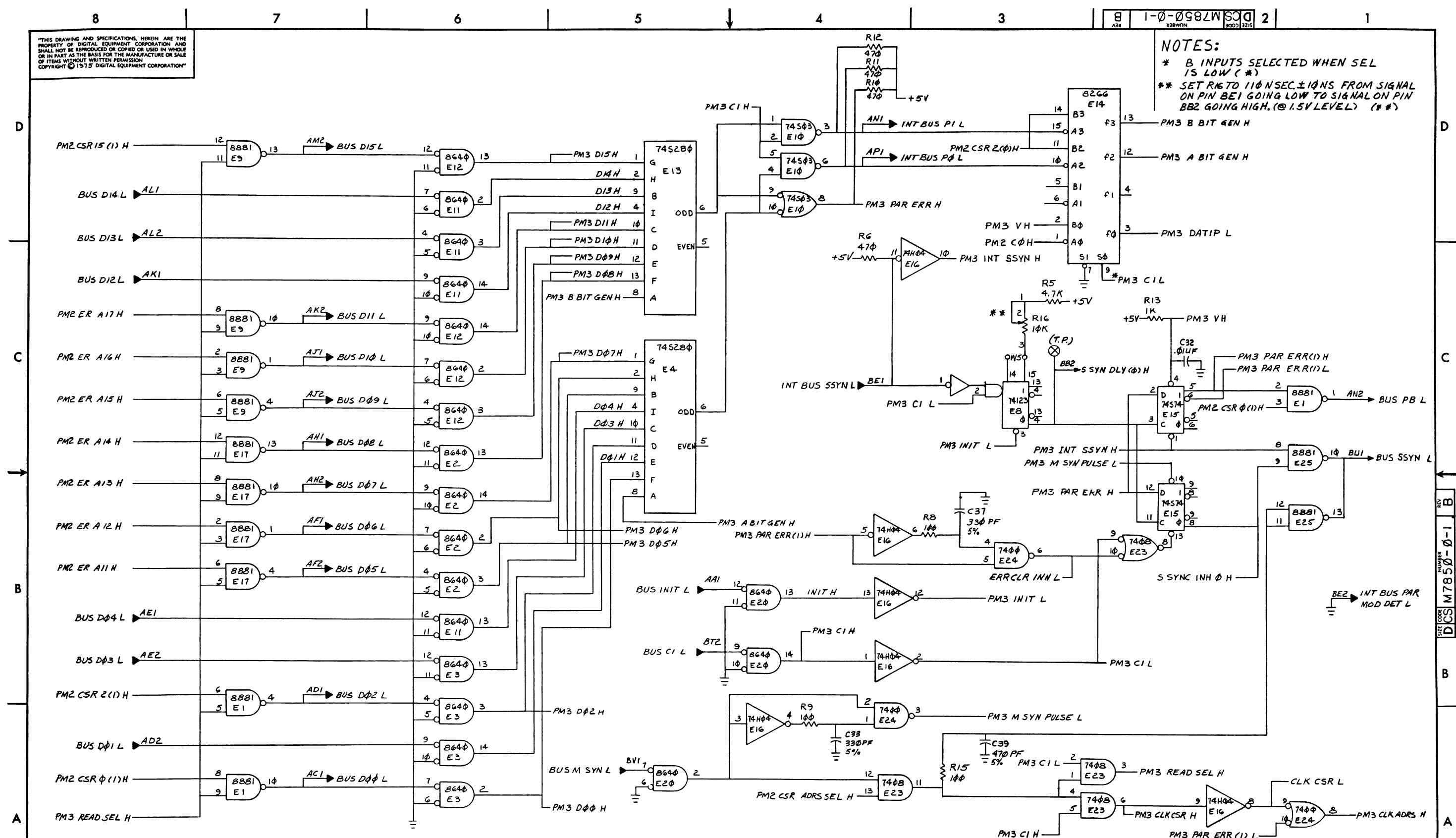
REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO 000 100

TITLE		SIZE CODE	NUMBER	REV.
PARITY MODULE (PM2)		D CS	M7850-0-1	B
SCALE	SHEET 2 OF 3	DIST.		

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NOTES:
* B INPUTS SELECTED WHEN SEL IS LOW (*)
** SET R16 TO 110 NSEC. ± 10% FROM SIGNAL ON PIN BE1 GOING LOW TO SIGNAL ON PIN BB2 GOING HIGH. (@ 1.5V LEVEL) (*)



REVISIONS		
CHK	CHANGE NO	REV

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NOTES:

CHANGE NO. REV	
5411554-0000 D	
D. SWELSER	
1/11/77	

SIGNATURES	DATE	digital
DRN. C. Eddy	7/9/75	
CHK'D. J. H. H. H.	7/9/75	
ENG. J. H. H. H.	7/9/75	
PROJ. ENG. J. H. H. H.	7/9/75	
PROD.		TITLE 16K X 16,18 MEMORY STACK
SCALE 2/1		SIZE CODE NUMBER
SHT. 1 OF 1		D 5411554-0-0 D
ETCH REV C	FIRST USED ON	

1 MS# 92577

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						QUANTITY / VARIATION									
PARTS LIST															
MADE BY M. Poirier			CHECKED <i>[Signature]</i>			SECTION									
DATE 7/7/75			DATE 7/7/75												
ENG <i>D. Smyth</i>			PROD <i>R A Hill</i>			ISSUED SECT.									
DATE 7/14/75			DATE 7/14/75												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION				QTY	REFERENCE DESIGNATIONS								
1	D-CS-5411554-0-1	CIRCUIT SCHEMATIC				REF									
2	D-AH-5411554-0-5	ASSY/DRILLING HOLE LAYOUT				REF									
3	B-MH-5411554-0-6	MODULE ECO HISTORY				REF									
4	5011493	ETCHED CIRCUIT BOARD				1									
5	1000926-00	CAP 680 PF 100V 5% <i>DM</i>				2	C5, C7								
6	1001610-01	CAP .01UF 100V <i>CER</i>				5	C1, C3, C6, C9, C10								
7	1010274-00	CAP .22UF 50V <i>CER</i>				3	C4, C8, <i>C2</i>								
8	1105275-00	DIODE D672				44	D2-D15, D17, D19, D21, D23, D25, D27								
							D29, D31, D33, D35, D37, D39, D41,								
							D43, D45, D47, D49, D51, D53, D55, D59								
							D61, D63, D65, D67, D69, D71, D73, D74								
							D75								
9	1109990-00	DIODE, ZENER 1N757A 9.1V 5%				1	D1								
10	7010918-3-0	DIODE NETWORK				2	D16, D18								
11	1910010-00	DIODE PACK 2501				24	D20, D22, D24, D26, D28, D30, D32, D34								
							D36, D38, D40, D42, D44, D46, D48, D50								
							D52, D54, D56, D58, D60, D62, D64, D66								
12	1300229-00	RES 100 1/4W 5%				3	, R13, R15, R17								
13	1301775-00	RES 820 1/4W 5%				1	R1								
14	1304862-00	RES <i>1.62K</i> <i>1/8W</i> <i>1%</i>				1	R4								
15	1302871-00	RES <i>1.21K</i> 1/8W 1%				1	R3								
16	1304833-00	RES <i>1.96K</i> 1/8W 1%				1	R12,								
TITLE			ASSY NO.			SIZE	CODE	NUMBER			REV.	ECO NO.			
16K x 16, 18 MEMORY STACK			D-UA-5411554-0-0			A	PL	5411554-0-0			D	00002			
SHEET 1 OF 2			DIST.												

DEC FORM DEC 16-(325)-1031-N870
DRA

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						QUANTITY / VARIATION									
PARTS LIST															
MADE BY M. Poirier			CHECKED <i>[Signature]</i>			SECTION									
DATE 7/7/75			DATE 7/7/75												
ENG <i>D. Smyth</i>			PROD <i>R A Hill</i>			ISSUED SECT.									
DATE 7/14/75			DATE 7/14/75												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION				QTY	REFERENCE DESIGNATIONS								
17	1303045-00	RES 3.16K 1/4W 1%				1	R2								
18	1300479-00	RES 10K 1/4W 5%				1	R16								
19	1303312-00	RES 10K 1/8W 1%				1	R5								
20	<i>1300316-00</i>	<i>RES 470 1/4W 5%</i>				1	R11								
21	1303155-00	RES 21.5K 1/8W 1%				1	R6								
22	1302396-00	RES <i>150K</i> 1/4W 5%				2	R8, R9								
23	1301781-00	RES 82 1/2W 5%				1	R56								
24	1300202-00	RES 47 1/4W 5%				2	R54, R55								
25	1300365-00	RES 1K 1/4W 5%				37	R18-R53, R7								
26	1310071-00	RES 1K 1% THERMISTER				1	R14								
27	1311742-00	RES NETWORK 220 1/4W 1%				6	R57-R62								
28	1503366-00	TRANS 2N3736				4	Q2-Q5								
29	1503409-01	TRANS 6534B				1	Q1								
30	1610662-00	INDUCTOR 100UH				2	L1, L2								
31	1910298-00	I.C. 72741				1	E1								
32	1910546-00	I.C. 74S140				1	E2								
33	1211727-00	CONTACT, MALE				179	J1-J179								
34	<i>9009185-00</i>	JUMPER, INSULATED (.4 LONG)				1	W5								
35	<i>9107560-01</i>	JUMPER, BUSS WIRE (#22 AWG)				4	<i>W1-W4 (OPTIONAL)</i>								
36	9006735-00	EYELET (SPLIT LUG)				4									
37	<i>1305114-00</i>	<i>RES 3.48K 1/8W 1%</i>				1	R10								
TITLE			ASSY NO.			SIZE	CODE	NUMBER			REV.	ECO NO.			
16K x 16, 18 MEMORY STACK			D-UA-5411554-0-0			A	PL	5411554-0-0			D				
SHEET 2 OF 2			DIST.												

DEC FORM DEC 16-(325)-1031-N870
DRA

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FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

MM11-DP PRINT SET

B-DD-MM11-YP
B-DD-G657-Ø
D-TD-M11-YP-2
D-UA-MM11-YP-Ø
B-DD-H228-B
D-CS-5412149-Ø-1
D-UA-H228-B-Ø
D-CS-M785Ø-Ø-1
B-PL-5412149-0-0
B-PL-G657-0-0
D-UA-G657-0-0
D-UA-5412149-0-0
D-CS-G657-0-1

[illegible]

**Digital Equipment
Corporation**
PRINT SET ORDER
NUMBER MP00317

EN-01124-18-M87B-1327

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NOTE: FIELD MAINTENANCE PRINT SET SEE: MP00317

UNIT VARIATIONS

[illegible]

REVISIONS		CHANGE NO.	REV.
CHK	MMIYP-2	A	

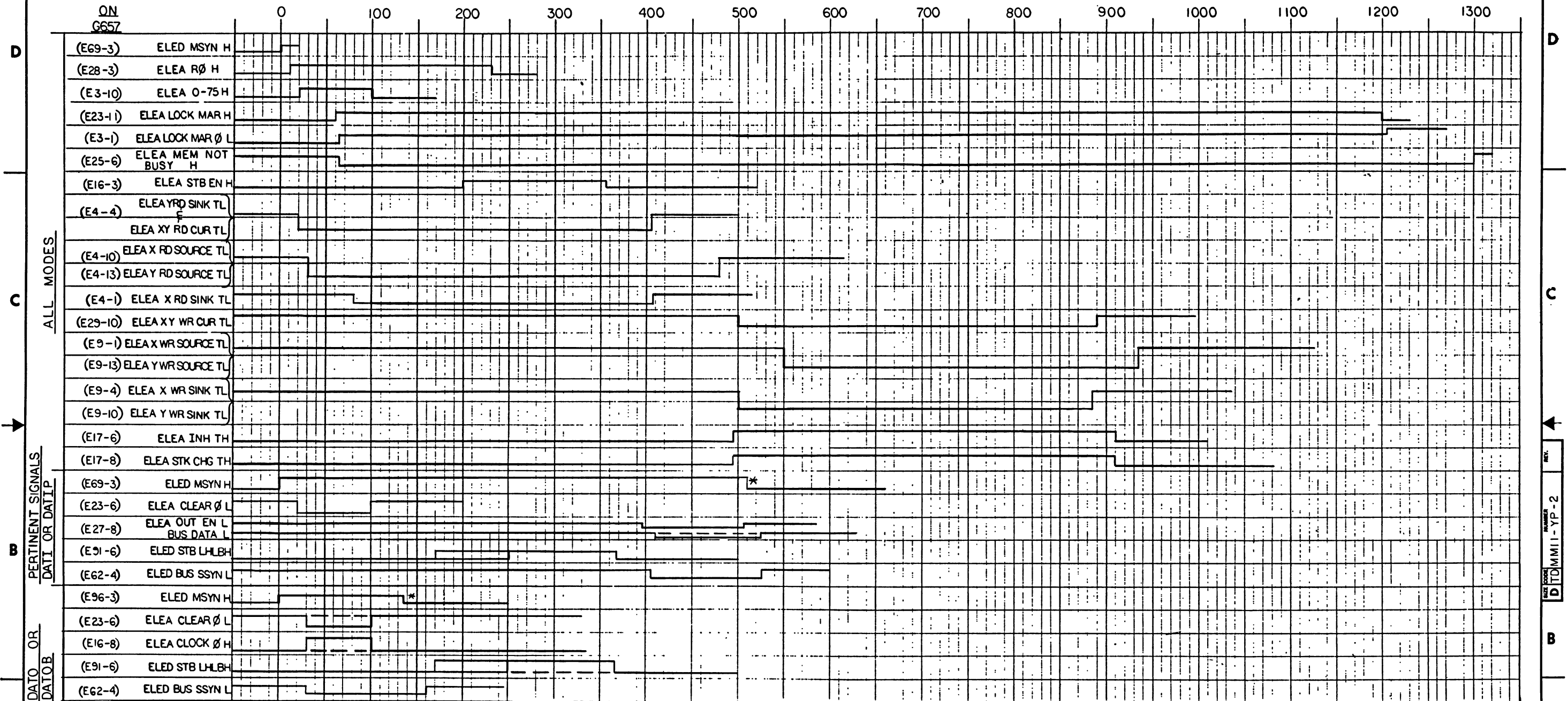
USED ON OPTION/MODEL	DRN. E. DeVero	DATE 18 May 77	TITLE MM11-YP MEMORY MODULE									
	CHK'D. R. Rudolph	DATE 18 MAY 77										
	PROJ. ENG. v Coates	DATE 20 APR 77										
	PROD. P. A Hill	DATE 21 MAY 77										
SHEET 1 OF 2												

SIZE	CODE	NUMBER						REV			
B	DD	MM11-YP						A			
DIST.											

digital

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MMII-YP TIMING
TIME (N.SEC.)

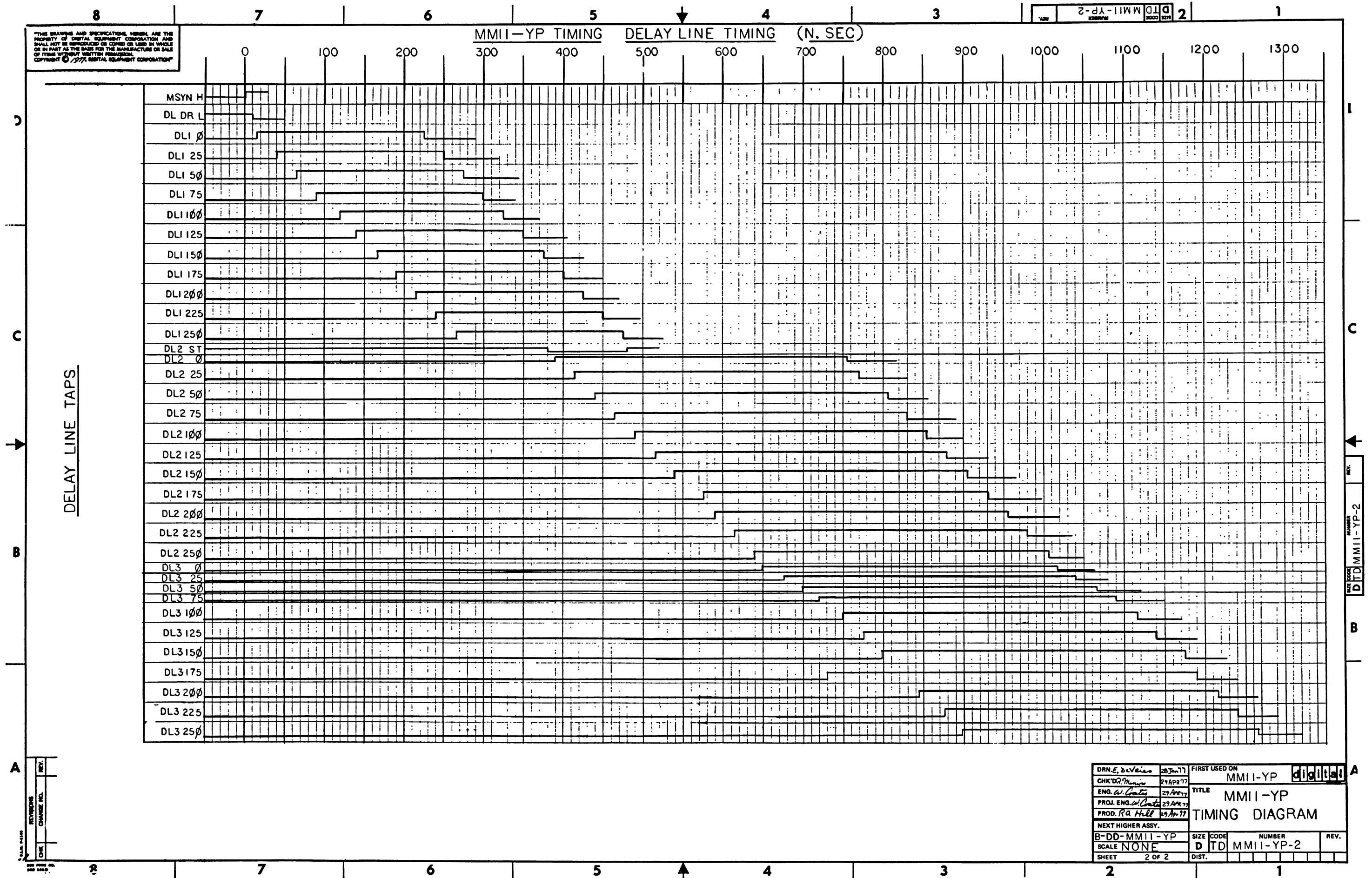


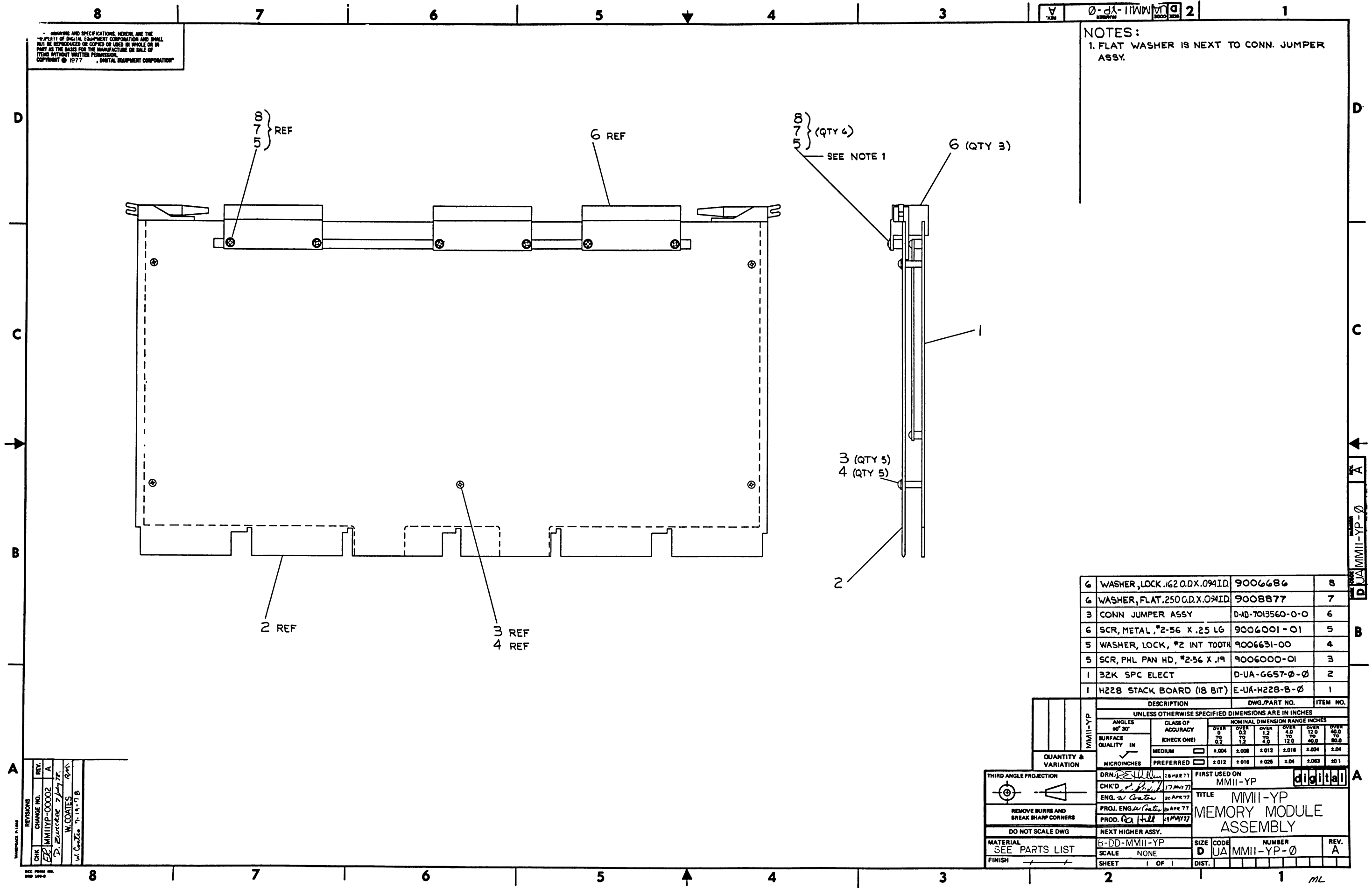
NOTES

1. TIMES ARE TYPICAL.
2. * BUS MSYNL $\uparrow \geq 75$ NS AFTER BUS SSYNL $\downarrow$

REV.	CHG.	NO.

DRN. E. DeVito	28 Jun 77	FIRST USED ON	MMII-YP
CHK'D R. DeVito	29 Apr 77	TITLE	MMII-YP
ENG. W. Conner	29 Apr 77	TIMING DIAGRAM	
PROJ. ENG. W. Conner	29 Apr 77		
PROD. RA. Hill	19 Apr 77		
NEXT HIGHER ASSY.			
B-DD-MMII-YP		SIZE CODE	D
SCALE NONE		NUMBER	MMII-YP-2
SHEET 1 OF 2		DIST.	





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NOTES:
1. FLAT WASHER IS NEXT TO CONN. JUMPER ASSY.

6	WASHER, LOCK .162 O.D. X .094 I.D.	9006686	8
6	WASHER, FLAT .250 O.D. X .094 I.D.	9008877	7
3	CONN JUMPER ASSY	D-AD-7013560-0-0	6
6	SCR, METAL, #2-56 X .25 LG	9006001-01	5
5	WASHER, LOCK, #2 INT TOOTH	9006631-00	4
5	SCR, PHL PAN HD, #2-56 X .19	9006000-01	3
1	32K SPC ELECT	D-UA-G657-0-0	2
1	H228 STACK BOARD (18 BIT)	E-UA-H228-B-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
ANGLES 30° 30'	CLASS OF ACCURACY (CHECK ONE)
SURFACE QUALITY IN MICROINCHES	MEDIUM PREFERRED
NOMINAL DIMENSION RANGE INCHES	
OVER 0 TO 0.2	OVER 0.2 TO 1.2
OVER 1.2 TO 4.0	OVER 4.0 TO 12.0
OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
±.004	±.008
±.012	±.016
±.026	±.04
±.083	±.1

THIRD ANGLE PROJECTION	DRN: <i>[Signature]</i> 18 MAR 77	FIRST USED ON	MMII-YP
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D: <i>[Signature]</i> 17 MAY 77	TITLE	MMII-YP MEMORY MODULE ASSEMBLY
DO NOT SCALE DWG	ENG. <i>[Signature]</i> 20 APR 77	SIZE	B-DD-MMII-YP
MATERIAL SEE PARTS LIST	PROJ. ENG. <i>[Signature]</i> 20 APR 77	SCALE	NONE
FINISH	PROD. <i>[Signature]</i> 11 MAY 77	NUMBER	D UA MMII-YP-0
		REV.	A
		SHEET	1 OF 1
		DIST.	

REV.	CHANGE NO.	DATE	BY	APP.
A	1	17 MAY 77	W. COATES	W. COATES
B	1	19 JUN 77	W. COATES	W. COATES
C	1	19 JUN 77	W. COATES	W. COATES
D	1	19 JUN 77	W. COATES	W. COATES
E	1	19 JUN 77	W. COATES	W. COATES
F	1	19 JUN 77	W. COATES	W. COATES
G	1	19 JUN 77	W. COATES	W. COATES
H	1	19 JUN 77	W. COATES	W. COATES
I	1	19 JUN 77	W. COATES	W. COATES
J	1	19 JUN 77	W. COATES	W. COATES
K	1	19 JUN 77	W. COATES	W. COATES
L	1	19 JUN 77	W. COATES	W. COATES
M	1	19 JUN 77	W. COATES	W. COATES
N	1	19 JUN 77	W. COATES	W. COATES
O	1	19 JUN 77	W. COATES	W. COATES
P	1	19 JUN 77	W. COATES	W. COATES
Q	1	19 JUN 77	W. COATES	W. COATES
R	1	19 JUN 77	W. COATES	W. COATES
S	1	19 JUN 77	W. COATES	W. COATES
T	1	19 JUN 77	W. COATES	W. COATES
U	1	19 JUN 77	W. COATES	W. COATES
V	1	19 JUN 77	W. COATES	W. COATES
W	1	19 JUN 77	W. COATES	W. COATES
X	1	19 JUN 77	W. COATES	W. COATES
Y	1	19 JUN 77	W. COATES	W. COATES
Z	1	19 JUN 77	W. COATES	W. COATES

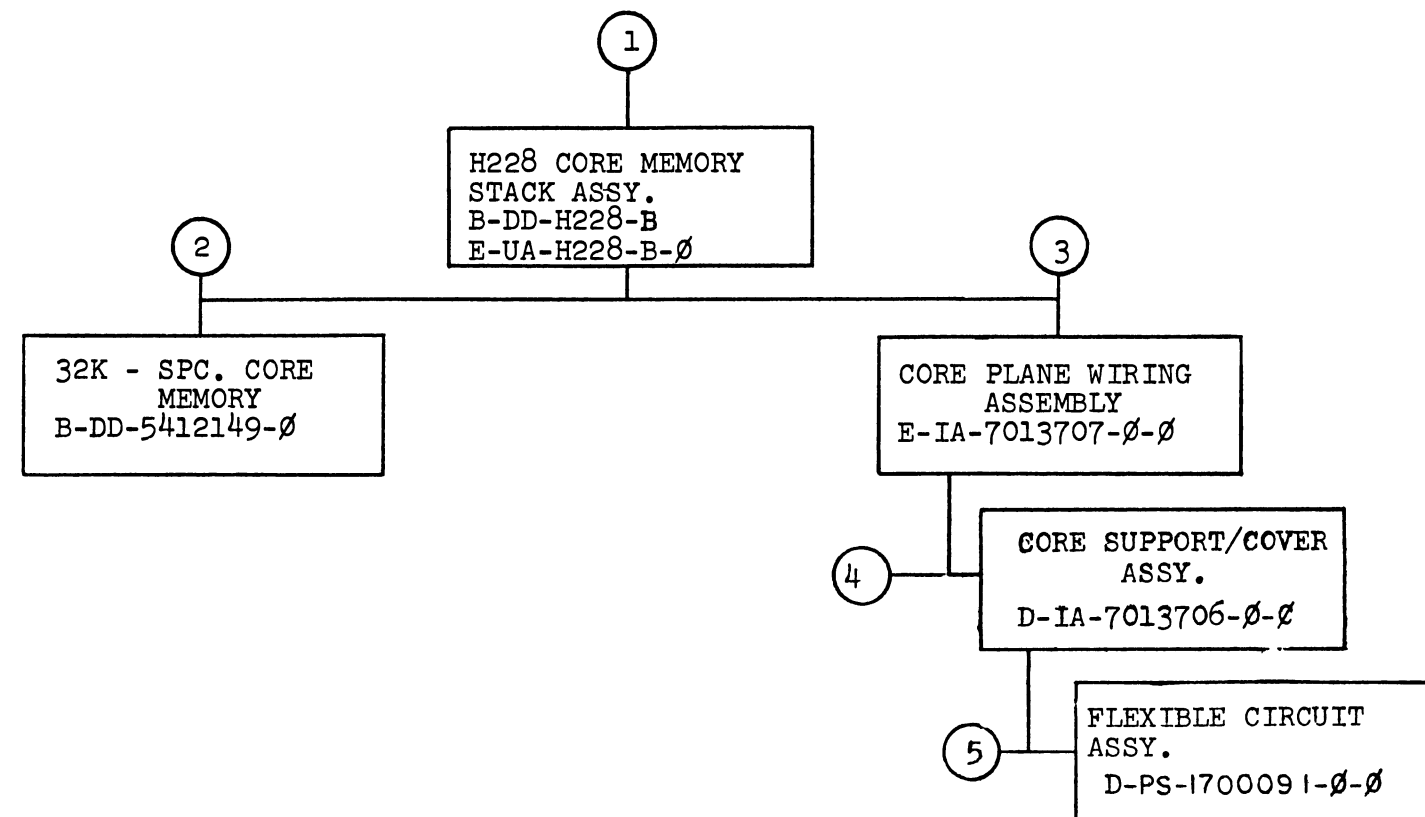
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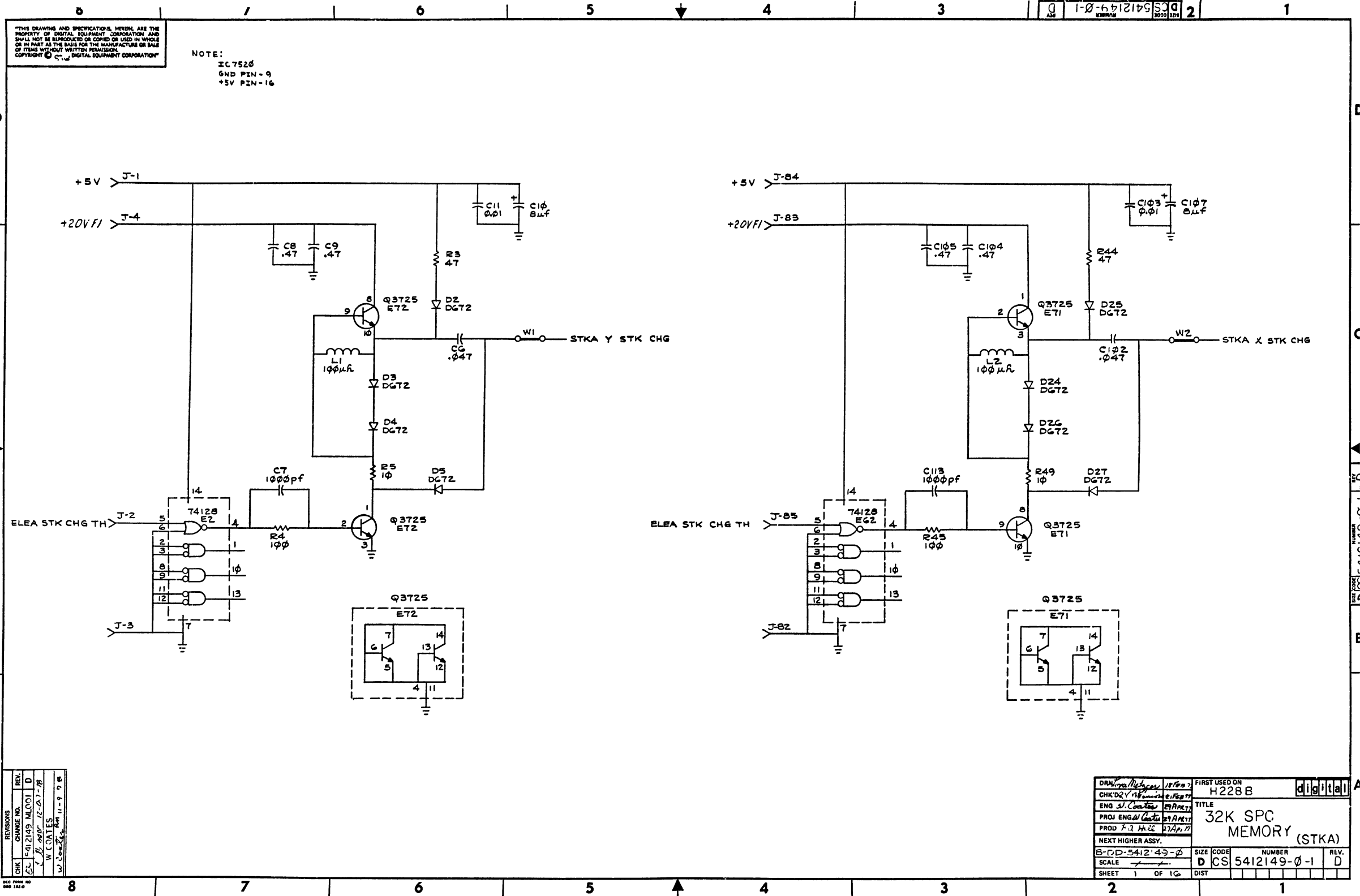
FOR FIELD MAINTENANCE PRINT SET REFER
TO MP00 317

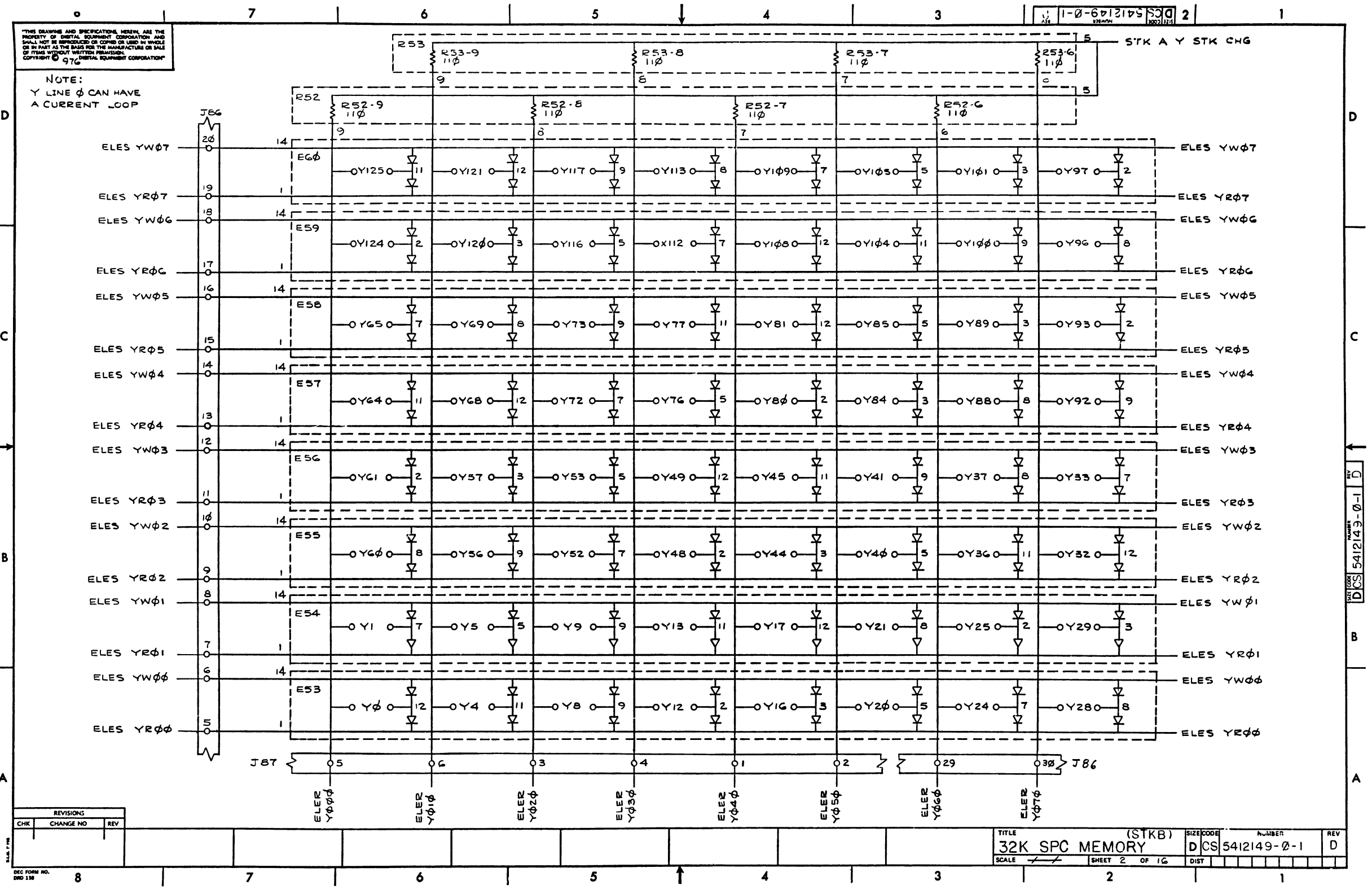
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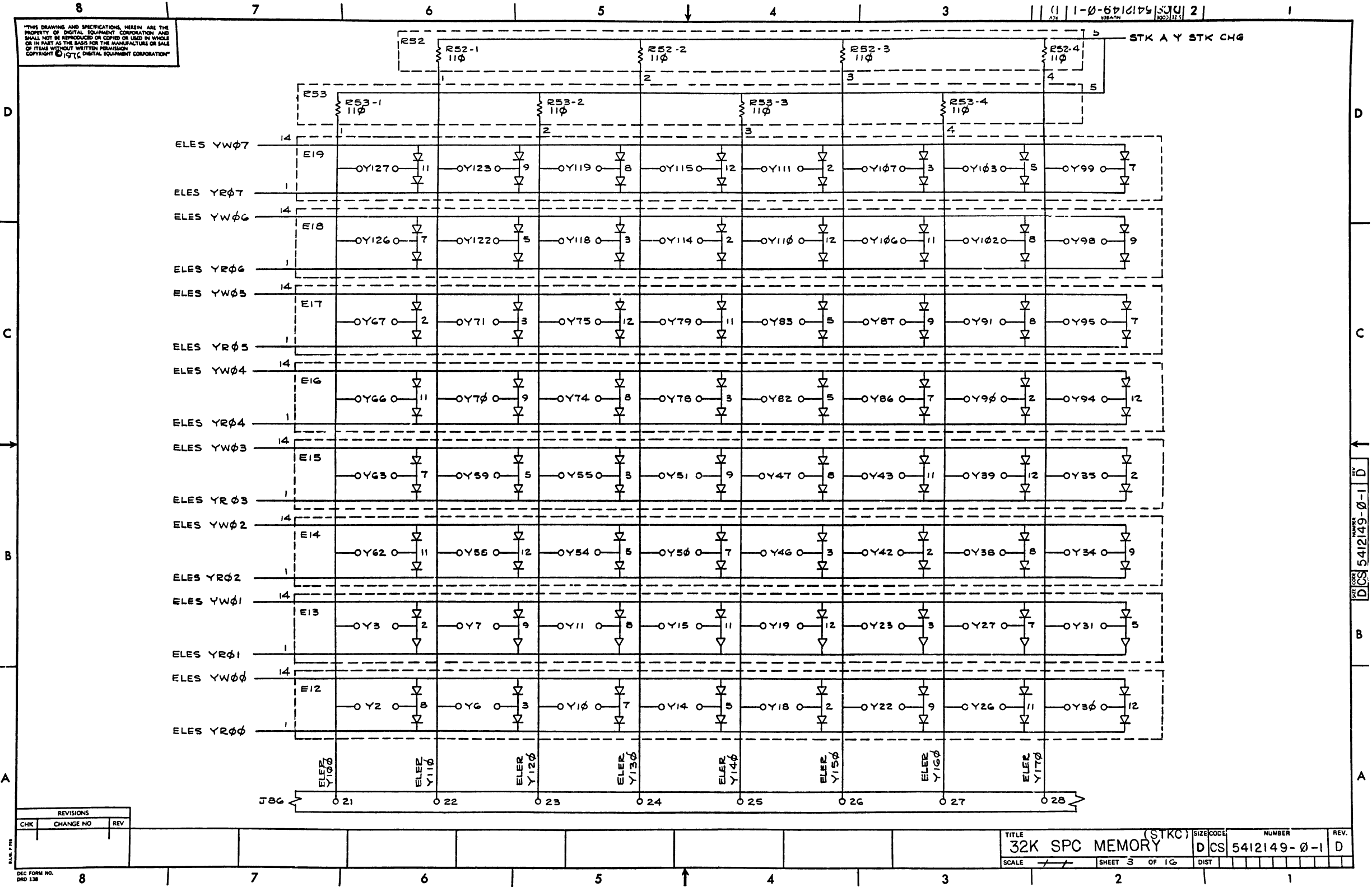
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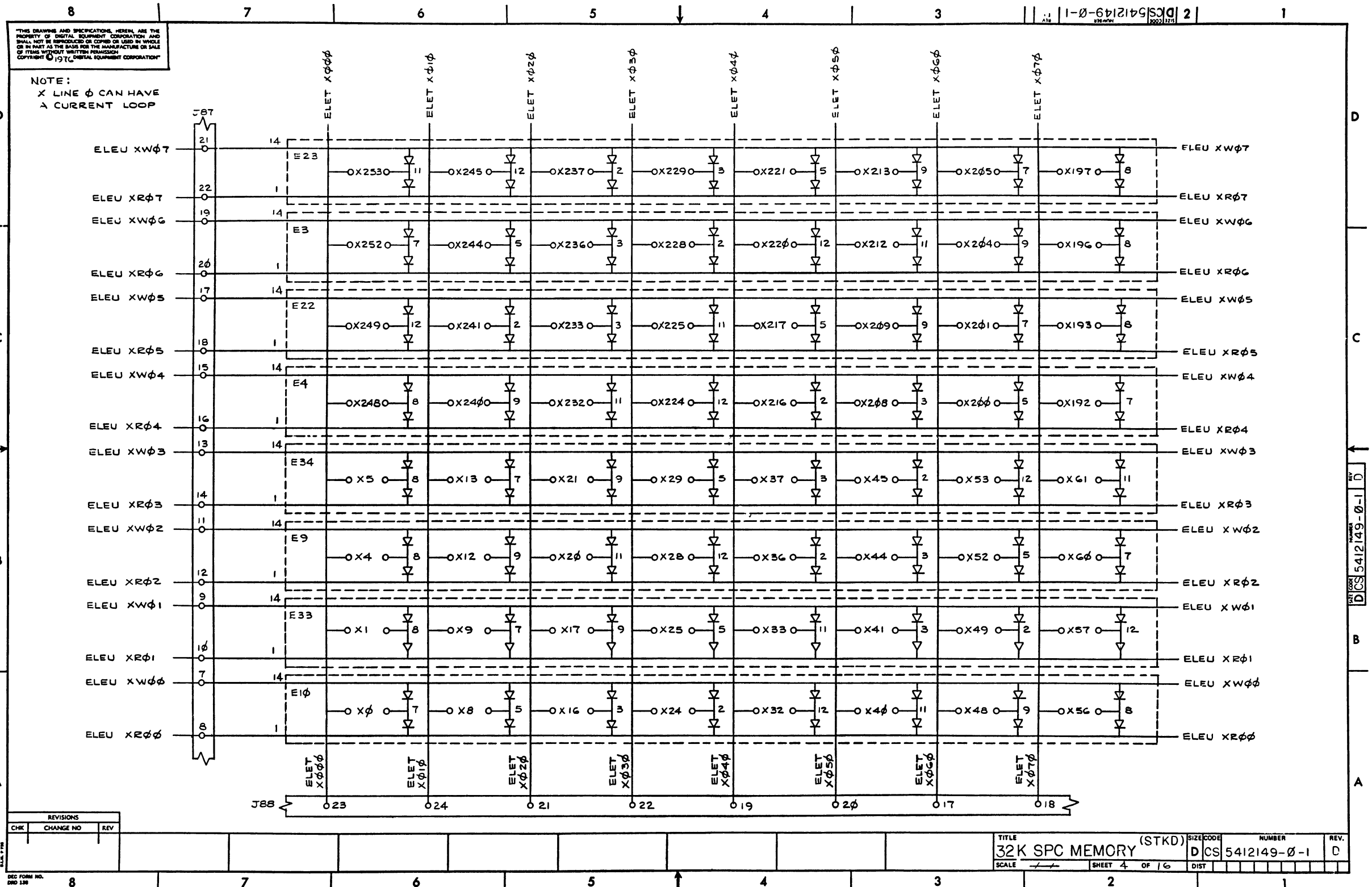


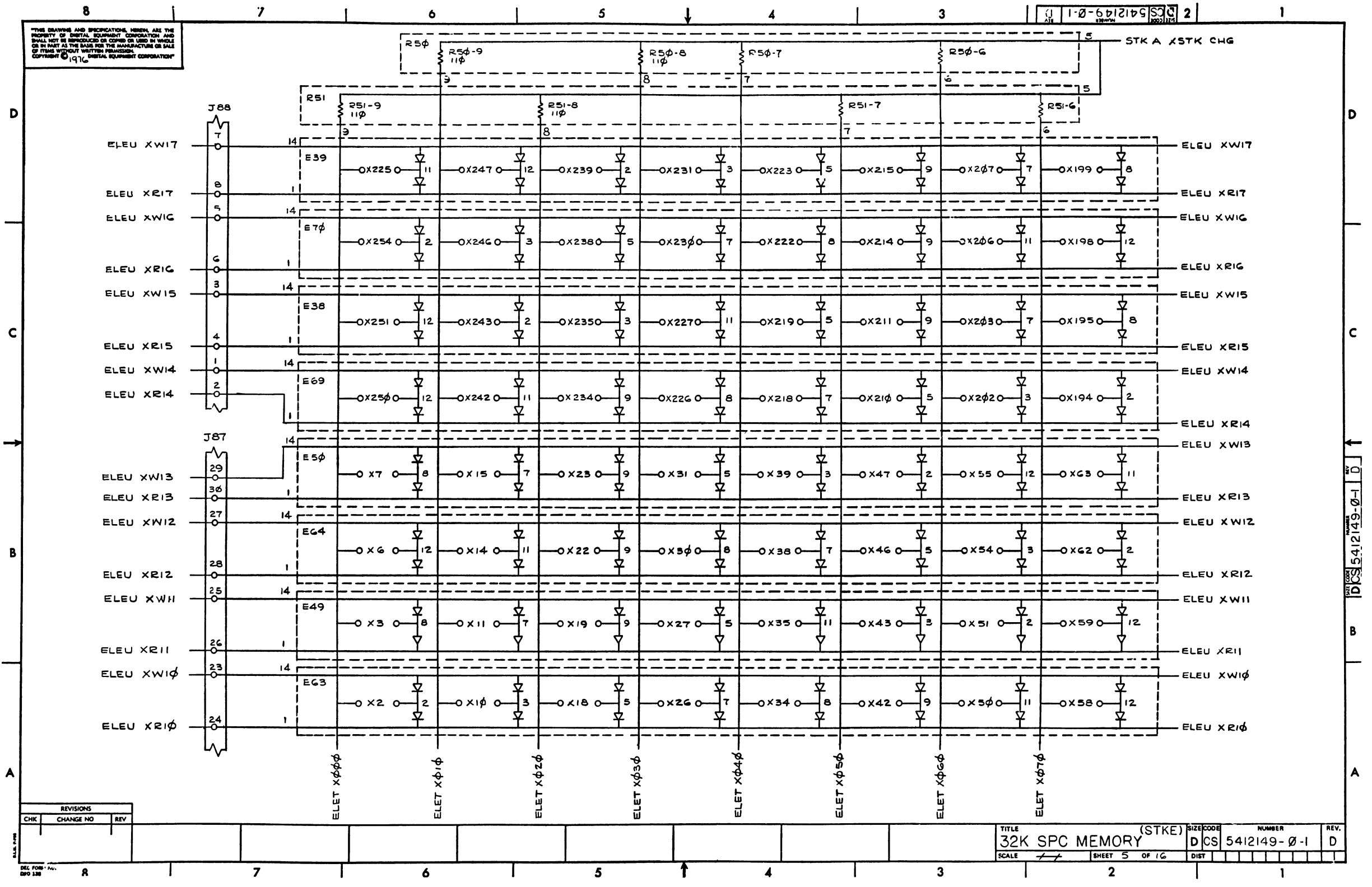
TITLE	SHEET	OF	SIZE	CODE	NUMBER	REV
H228 CORE MEMORY STACK	2	3	B	DD	H228-B	

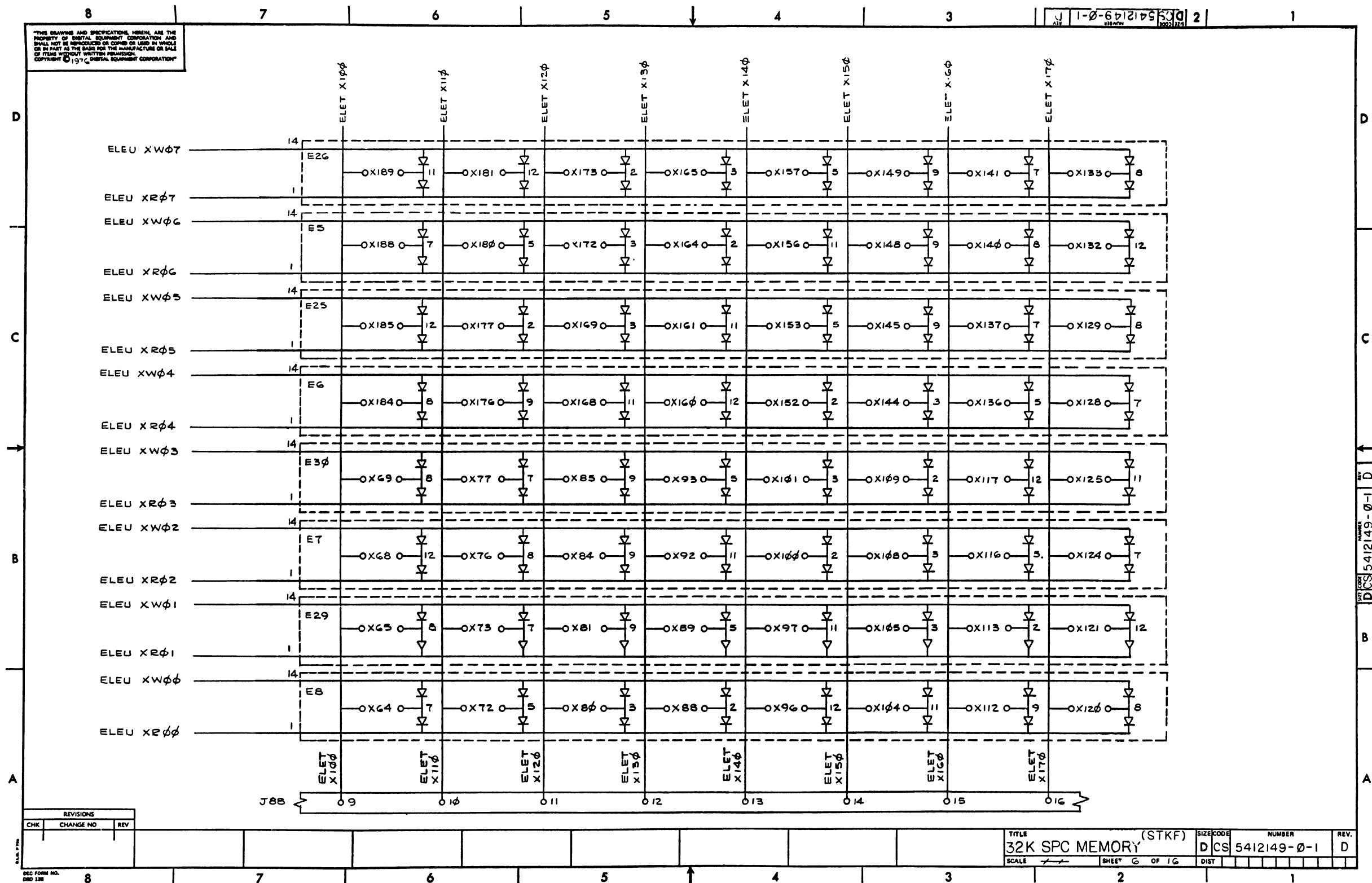


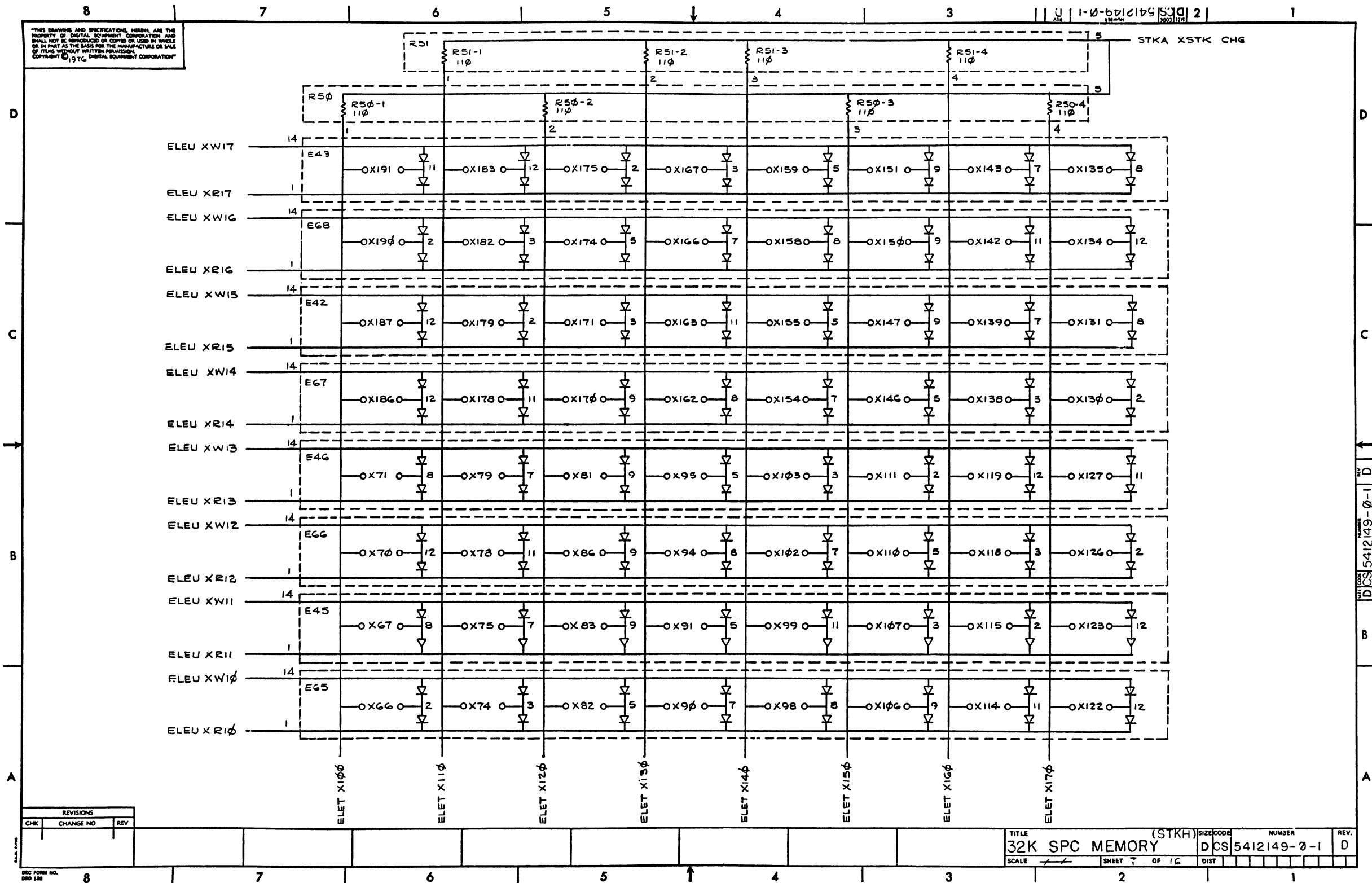


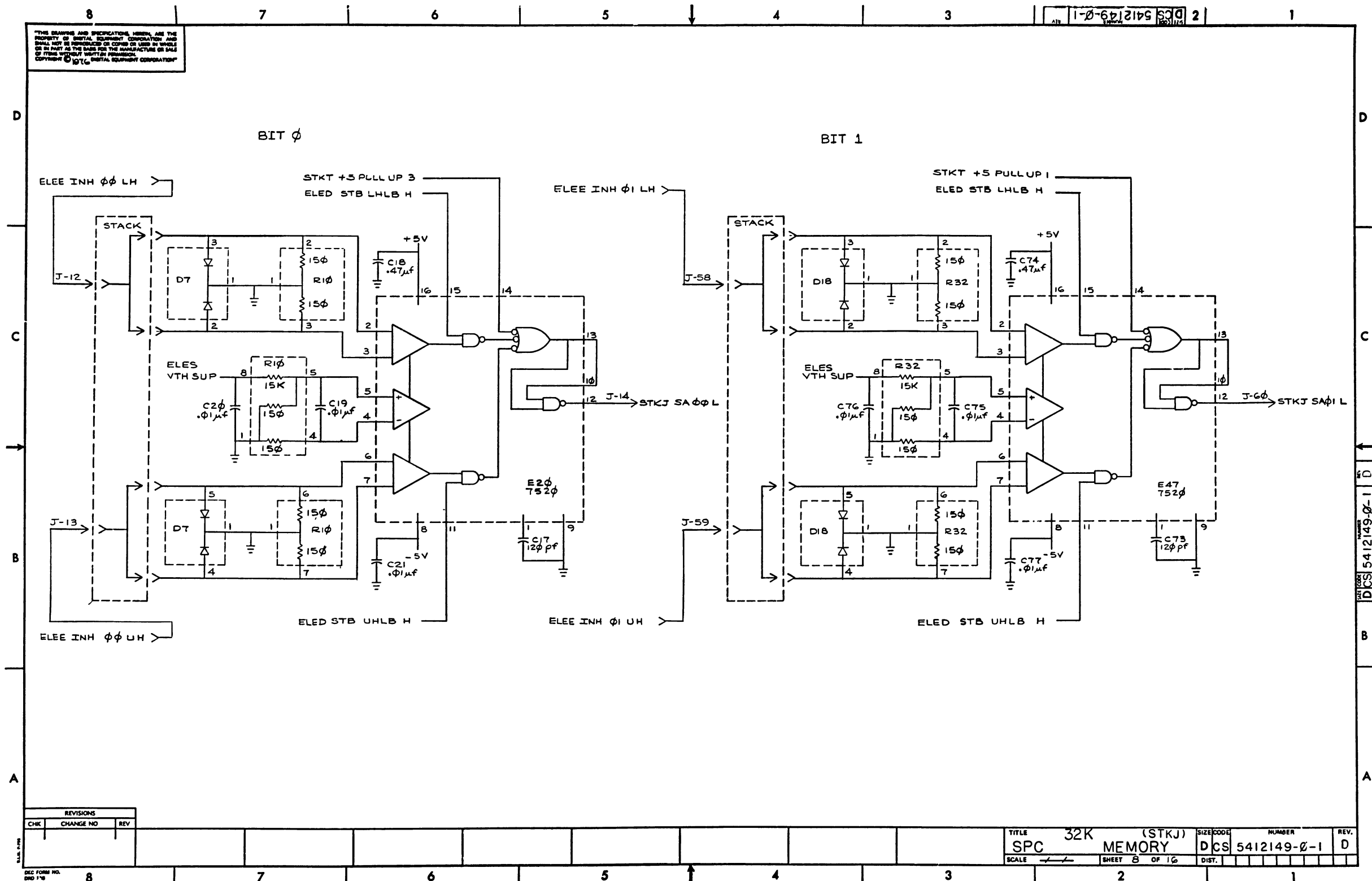


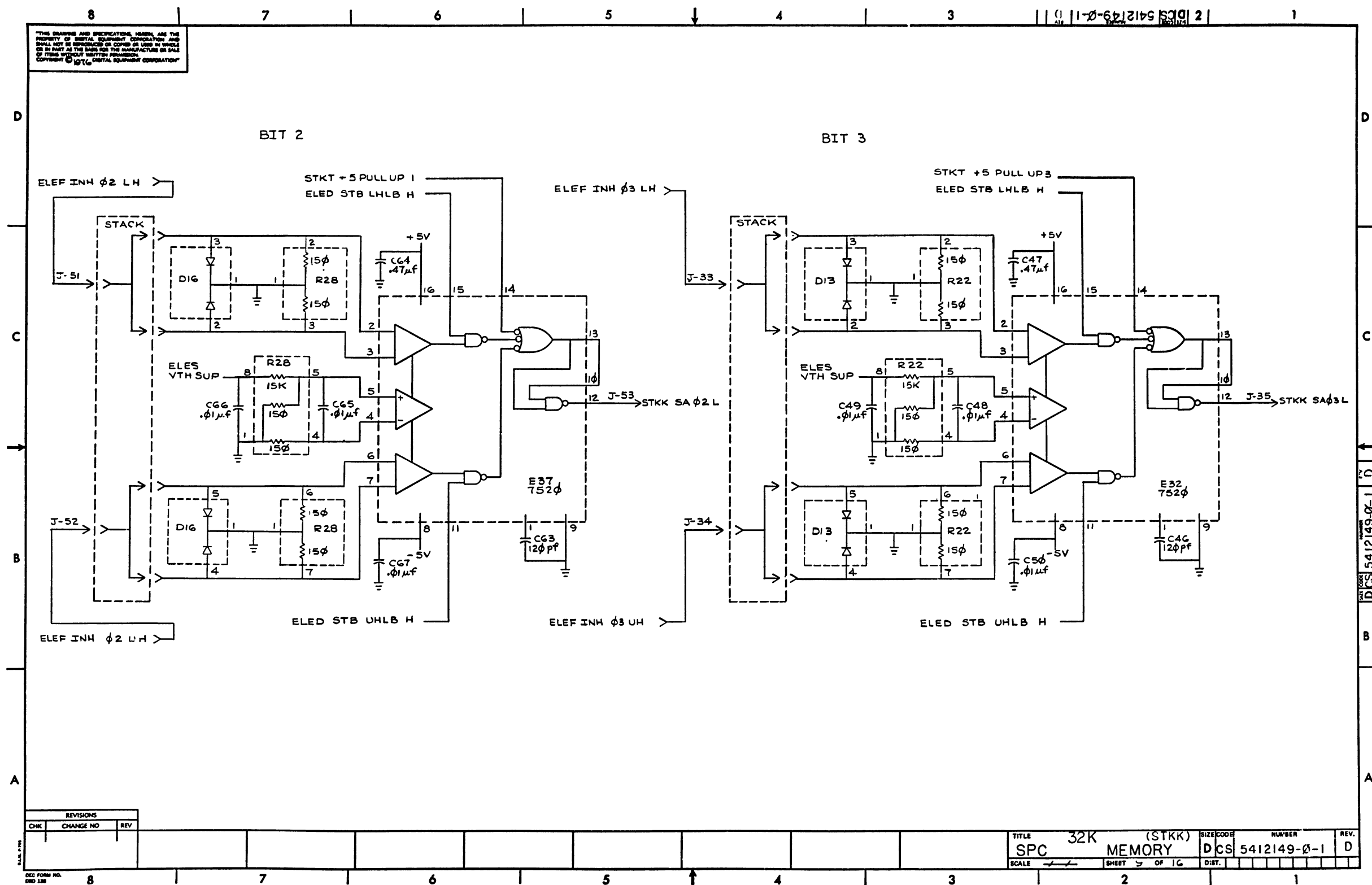


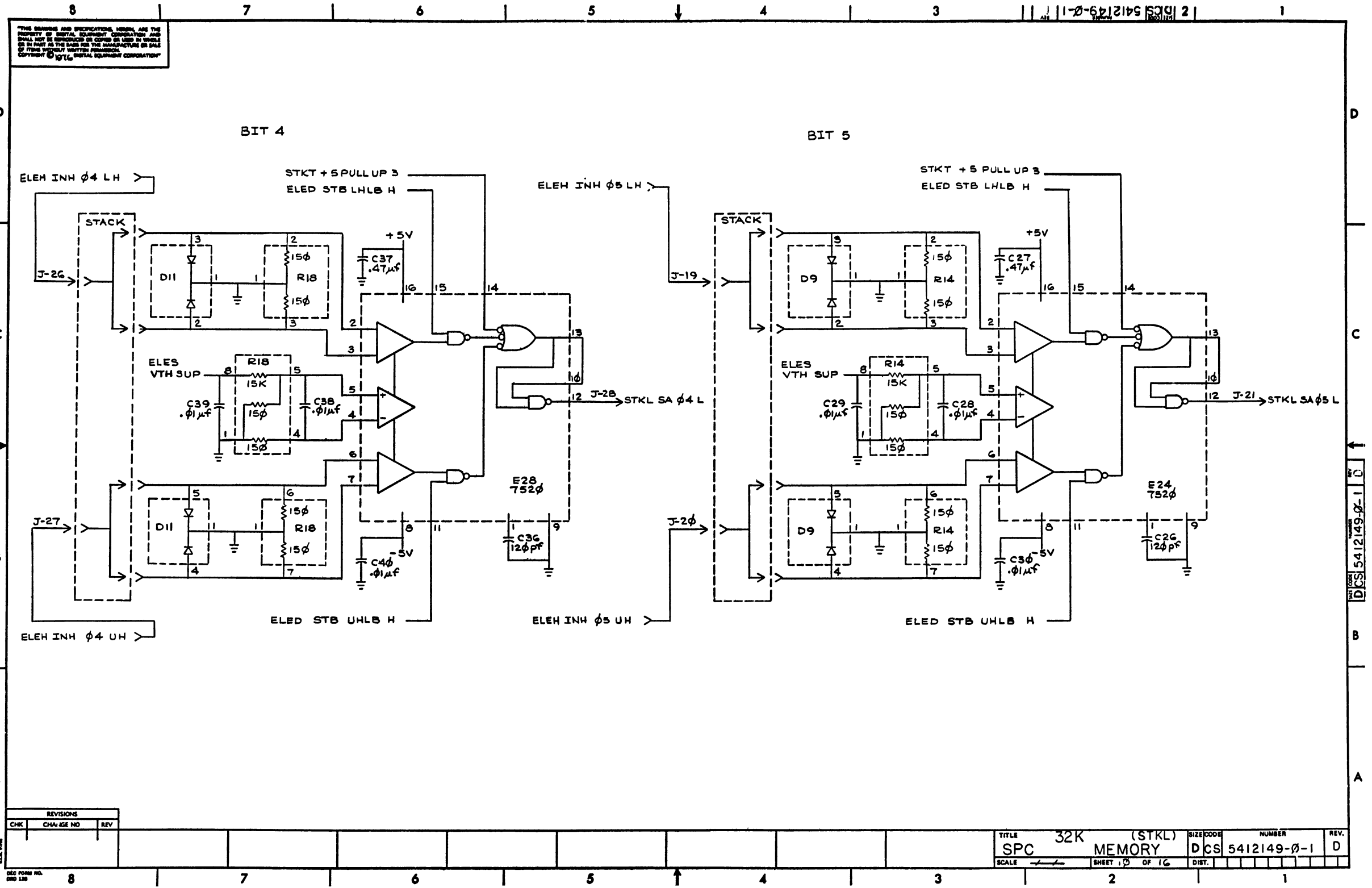






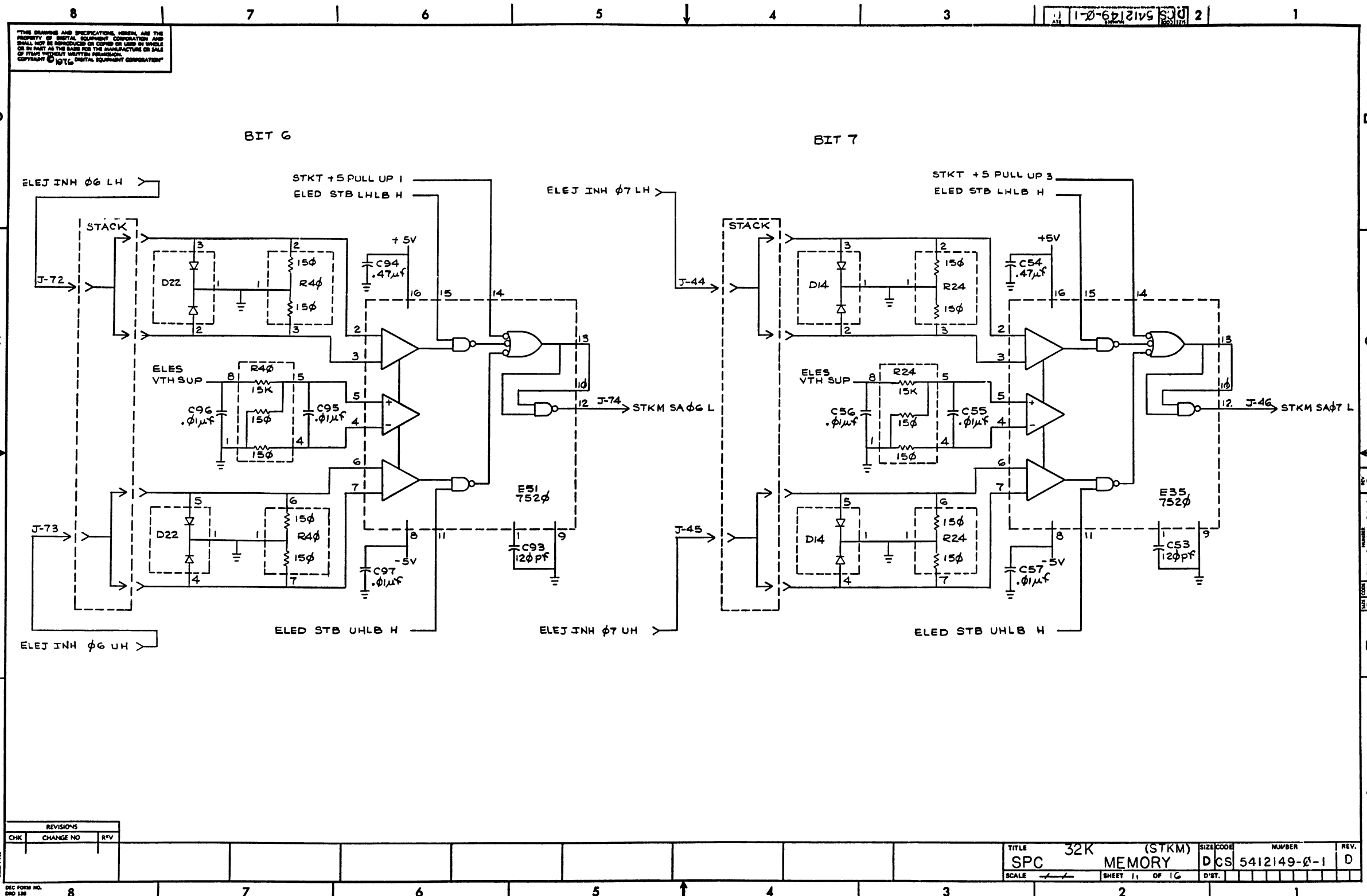


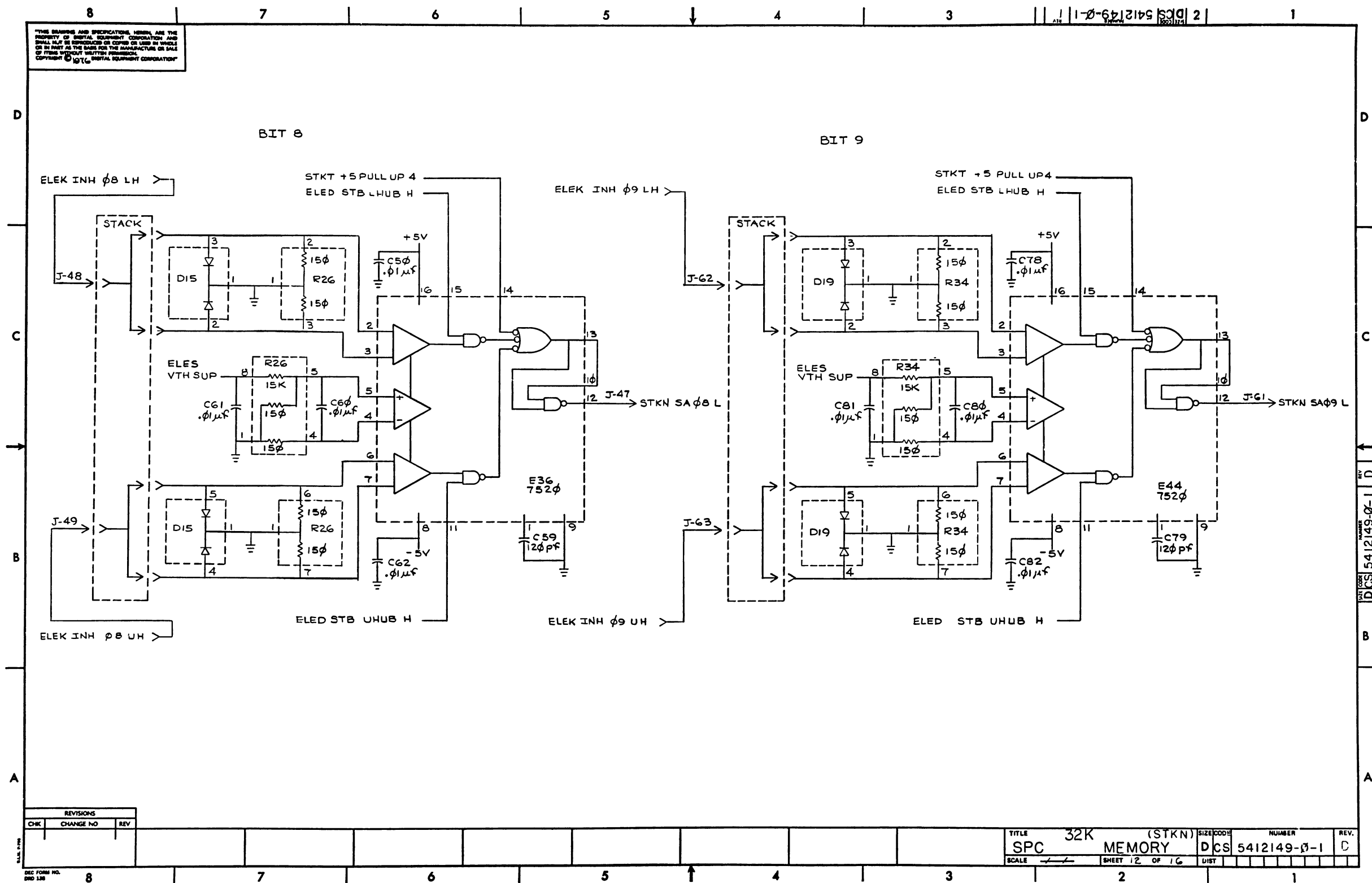


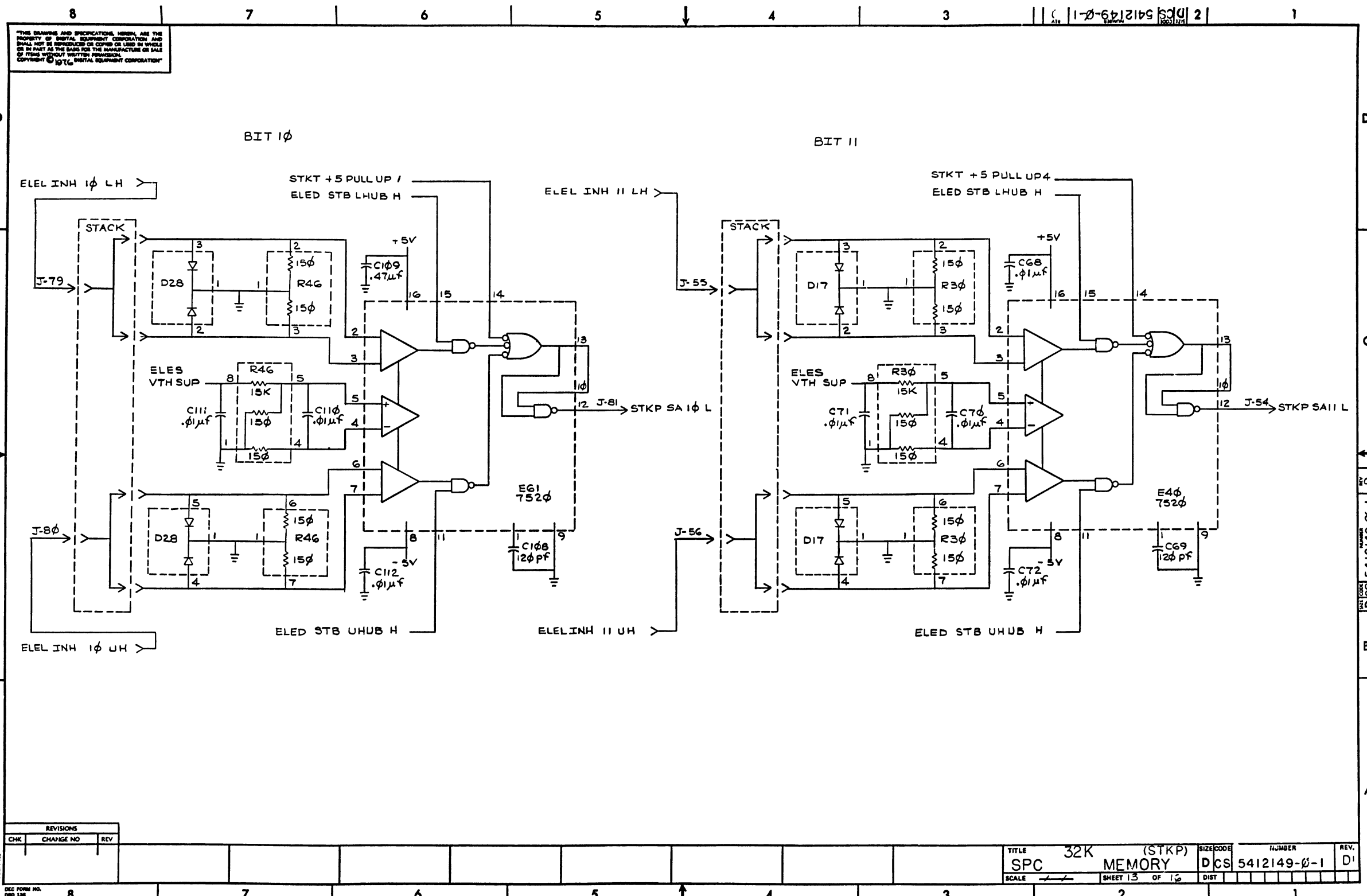


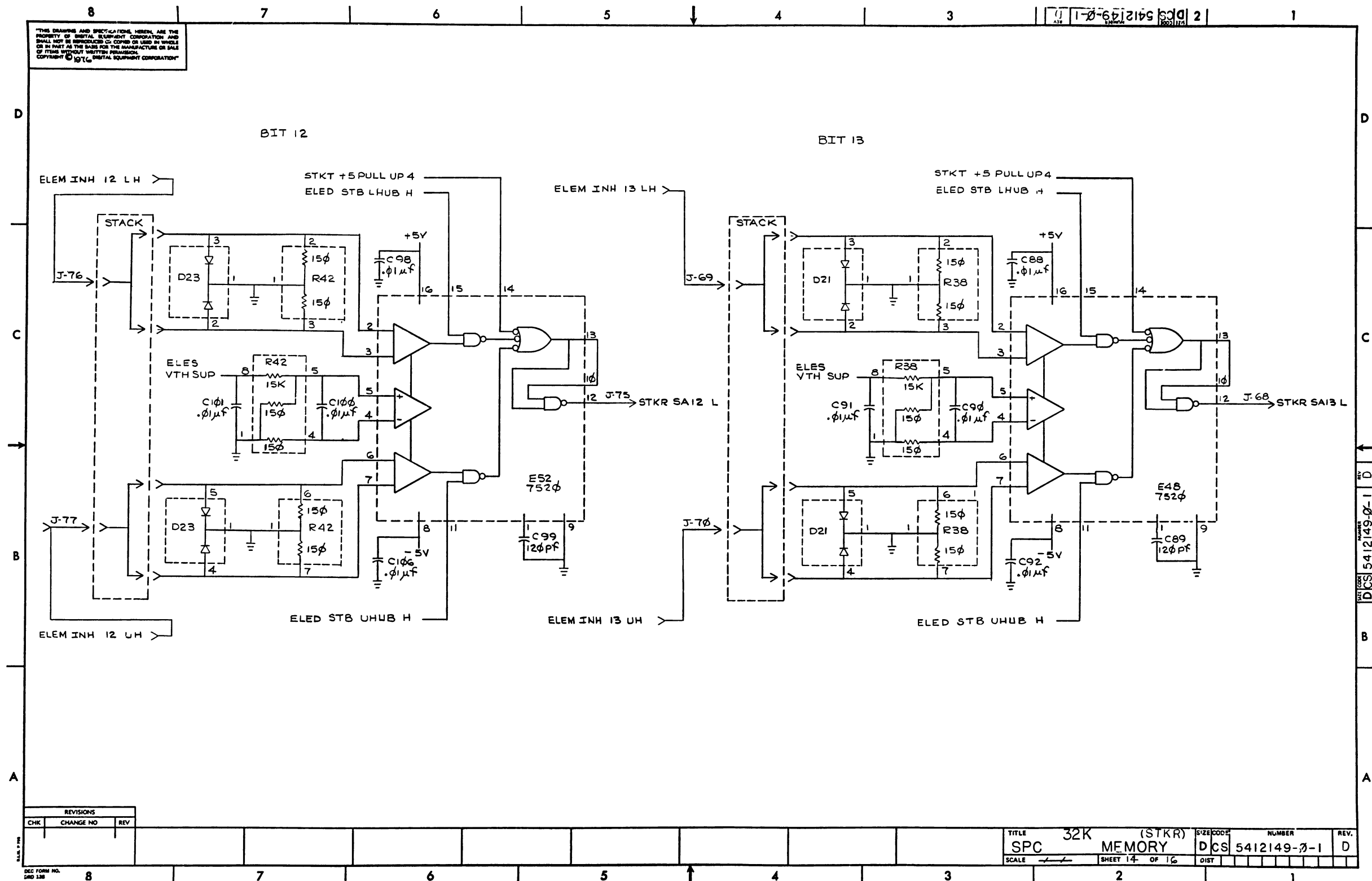
REVISIONS		
CHK	CHANGE NO	REV

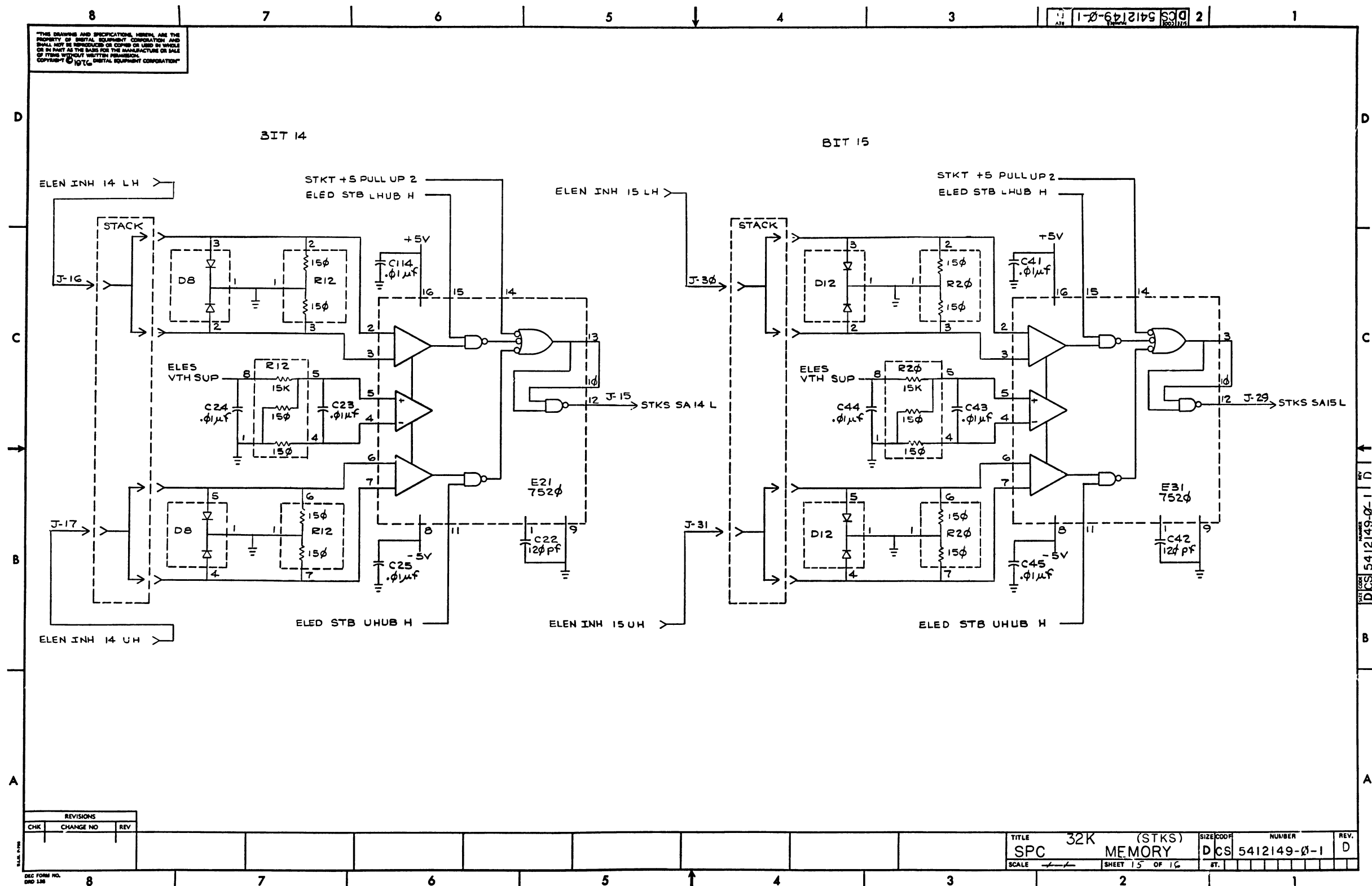
TITLE	32K (STKL) MEMORY	SIZE CODE	NUMBER	REV.
SPC	MEMORY	DCS	5412149-0-1	D
SCALE	1/8	SHEET	10 OF 16	DIST.

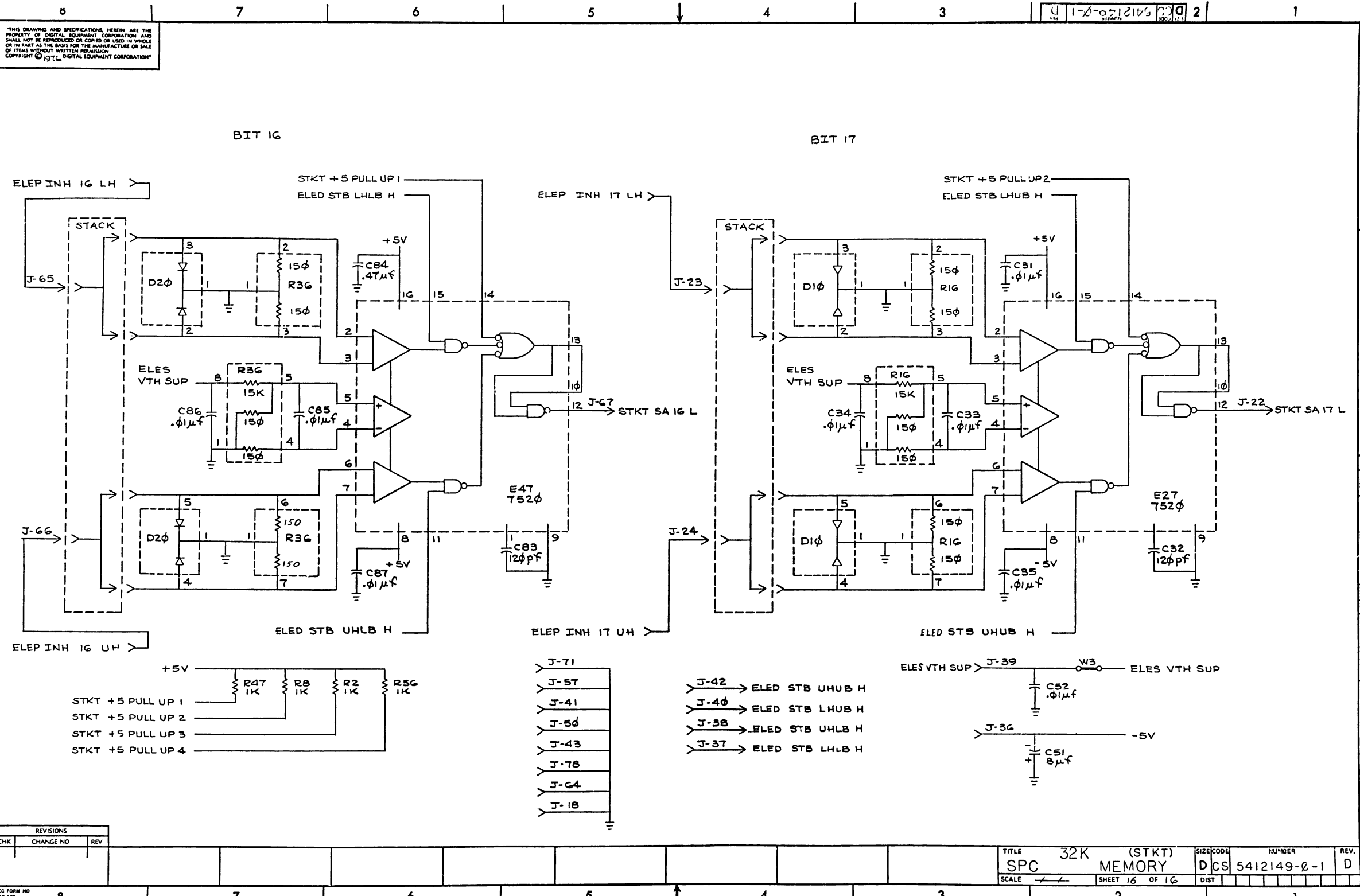


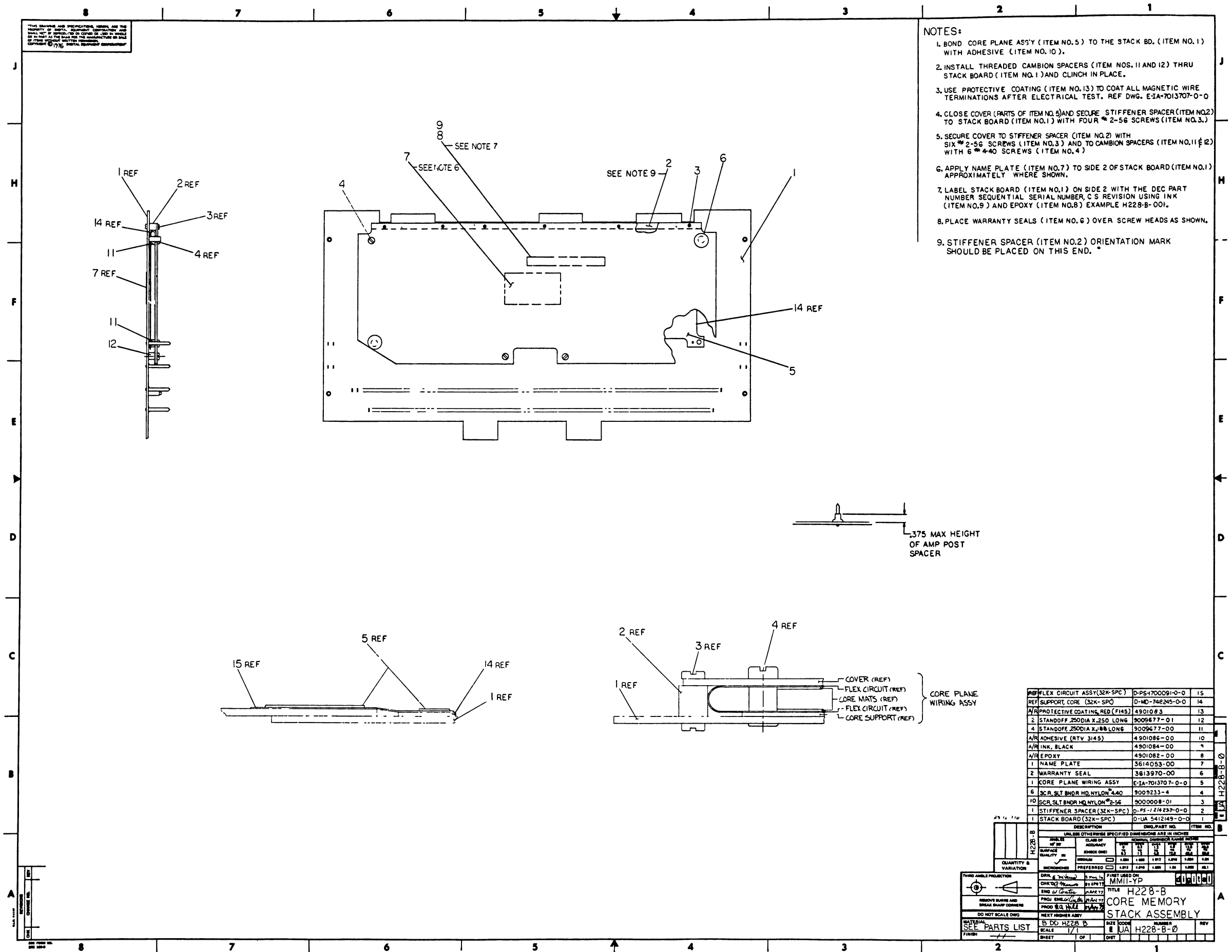








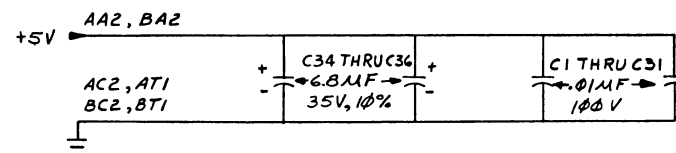
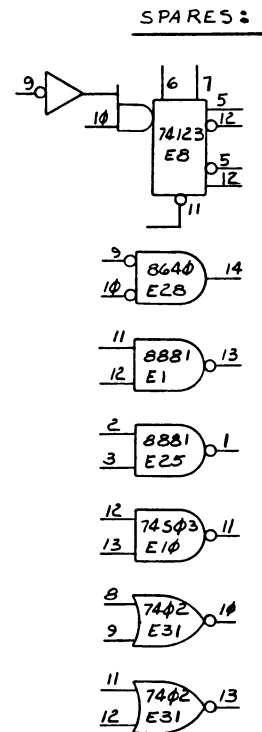
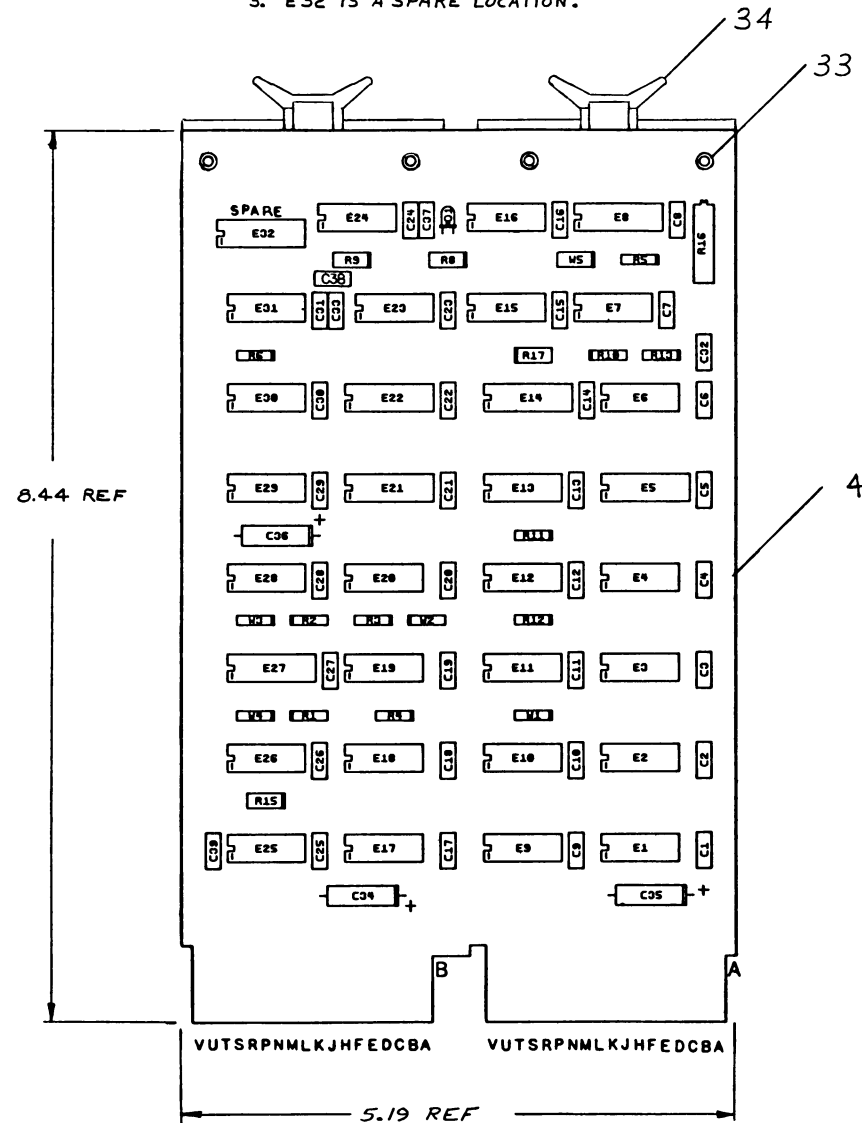




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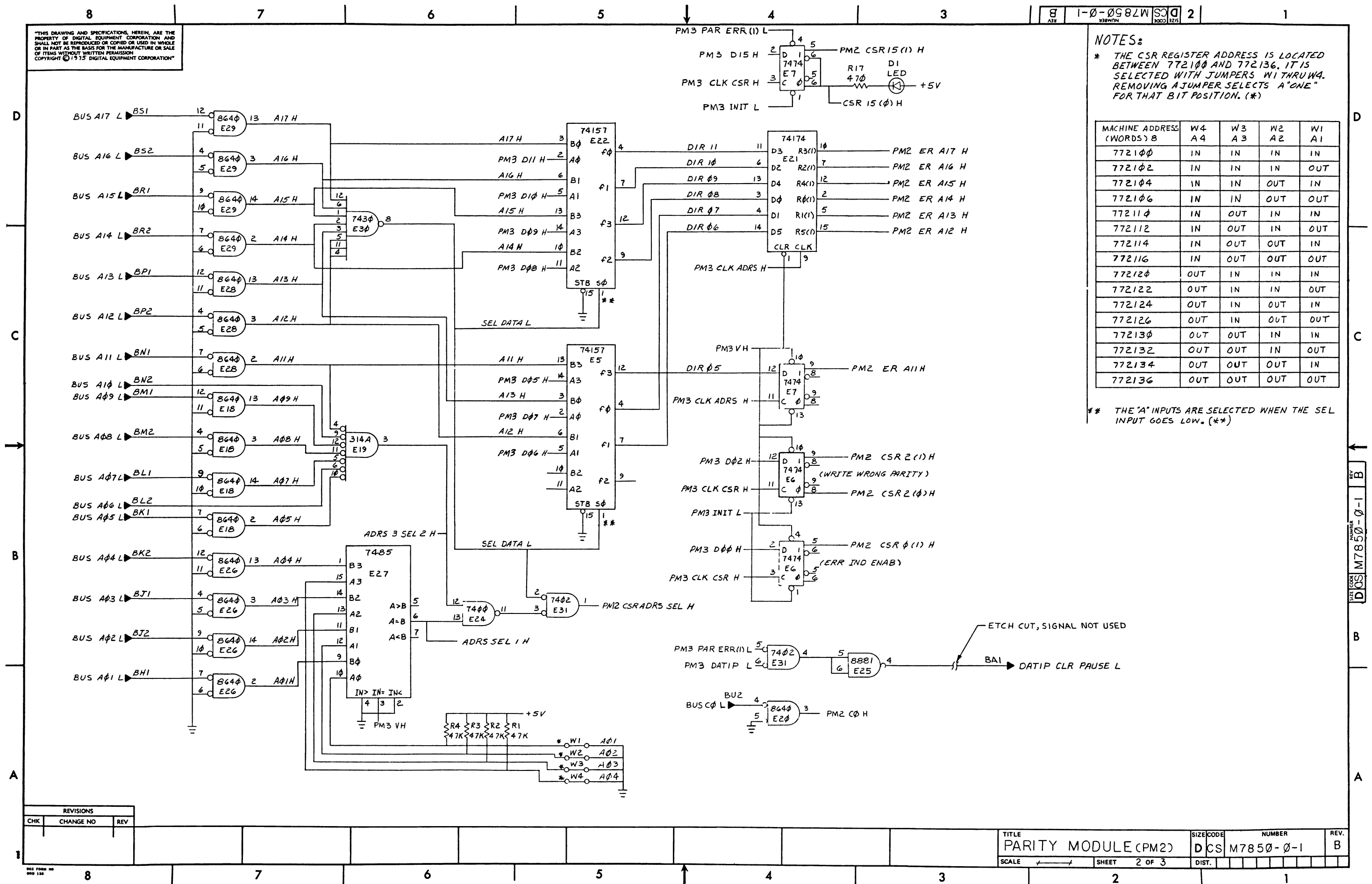
NOTES:

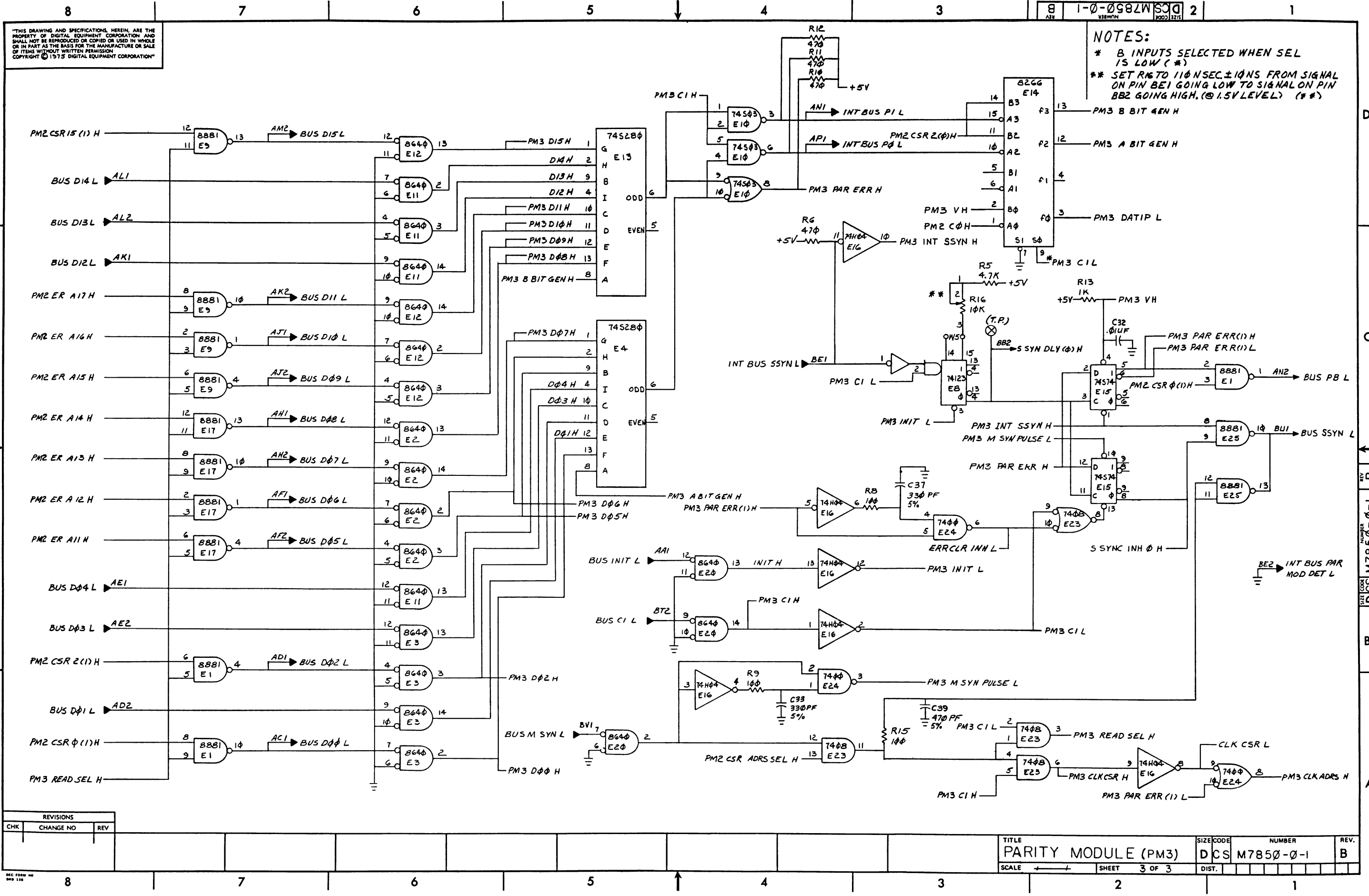
1. ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE NOTED.
ALL CAPACITORS ARE 100V, 20% UNLESS OTHERWISE NOTED.
2. JUMPER CONTROL OPERATIONS AS FOLLOWS:
W1 THRU W4 SELECT CSR ADDRESS, W5 CAPACITOR FOR S SYN DLY, NOT USED.
3. E32 IS A SPARE LOCATION.



8		1-0-0987W		S9d		2		1	
A3H		M3BWM		3003		3215			
REF		CIRCUIT SCHEMATIC						D-CS-M7850-0-1	REF
REF		X-Y COORDINATE HOLE LOCATION						K-CO-M7850-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT						D-AH-M7850-0-5	2
REF		MODULE ECO HISTORY						B-MH-M7850-0-6	3
1		ETCHED CIRCUIT BOARD						5010651-00	4
1	C39	CAP 470 PF, 100V, 5% (DM)						1000024-00	5
2	C33, C37	CAP 330 PF, 100V, 5% (DM)						1000023-00	6
32	C1 THRU C32	CAP .01 MF, 100V, 20% DISC						1001610-01	7
3	C34, C35, C36	CAP 6.8 MF, 35V, 10% STANT						1005306-00	8
1	D1	DIODE, L.E.D.						1110324-00	9
5	R1 THRU R5	RES 4.7K 1/4W 5%						1300447-00	10
3	R8, R9, R15	RES 100 1/4W 5%						1300229-00	11
5	R6, R10, R11, R12, R17	RES 470 1/4W 5%						1300316-00	12
1	R13	RES 1K 1/4W 5%						1300365-00	13
1	R16	RES 10K 3/4W 20% (76 PR. RT)						1309143-10	14
1	E24	I.C. 7400						1905575-00	15
1	E30	I.C. 7430						1905578-00	16
1	E31	I.C. 7402						1909004-00	17
1	E19	I.C. 314A						1909704-00	18
1	E23	I.C. 7408						1910155-00	19
4	E1, E9, E17, E25	I.C. 8881						1909705-00	20
1	E16	I.C. 74H04						1909931-00	21
1	E27	I.C. 7485						1910224-00	22
1	E8	I.C. 74123						1910436-00	23
1	E10	I.C. 74503						1910533-00	24
1	E15	I.C. 74574						1910544-00	25
1	E21	I.C. 74174						1910652-00	26
2	E5, E22	I.C. 74157						1910655-00	27
9	E2, E3, E11, E12, E18 E20, E26, E28, E29	I.C. 8640						1911469-00	28
2	E4, E13	I.C. 745280						1911573-00	29
1	E14	I.C. 8266						1909934-00	30
2	E6, E7	I.C. 7474						1905547-00	31
4	W1 THRU W4	INSULATED JUMPER						9009185-00	32
4		EYELET						9006732-00	33
2		HANDLE, FLIP-CHIP (MAGENTA)						9008337-6	34

IC TYPE	GND	+5V
8640	1	8
8266	8	16
74157	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	8
IC PIN LOCATIONS		
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTS ARE STATED ABOVE		





NOTES:
* B INPUTS SELECTED WHEN SEL IS LOW (*)
** SET R6 TO 110 NSEC. ± 10% FROM SIGNAL ON PIN BE1 GOING LOW TO SIGNAL ON PIN BB2 GOING HIGH. (@ 1.5V LEVEL) (**)

REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE		NUMBER		REV.
PARITY MODULE (PM3)		DCS		M7850-0-1		
SCALE 		SHEET 3 OF 3		DIST.		

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:			
PARTS LIST														USED ON: OPTION/MODEL H228B			
MADE BY David Caruso		CHECKED <i>S. Bauman</i>		SECTION 1												NOTE: 1. * = CAP 10-01610-01 CAN BE USED IN PLACE OF 10-01610-00	
DATE 11/18/76		DATE 21 FEB 77															
ENG <i>A. Coates</i>		PROD <i>R.Q. + CL</i>		ISSUED SECTION 1													
DATE 29 APR 77		DATE 29 Apr 77															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF												REF DESIGNATION	
	D-CS-5412149-Ø-1		CIRCUIT SCHEMATIC	RDF													
	B-DD-5412149-Ø.		DWG DIRECTORY	REF													
	D-MD-5012148-Ø-Ø		DRILL & ETCH DWG	REF													
	D-UA-5412149-Ø-Ø		UNIT ASSEMBLY	REF													
1		10-00042-00	CAP 1000 PF 100V 5% DM	2												C7,C113	
2		10-00018-00	CAP 120 PF 100V 5% DM	18												C83,C93,C73,C63,C53,C46,C36,C26,C108,C99 C89,C79,C69,C59,C42,C32,C17,C22	
3		5012148	ETCHED CIRCUIT BOARD	1													
4		10-10978-32	CAP .047 UF 50V CER	2												C6,C102	
5		* 10-01610-00	CAP 0.01 UF 50V CER	67												C110,C111,C112,C114 C11,C95,C96,C97,C52,C85,C86,C87,C77,C75, C76,C103,C65,C66,C67,C106,C55,C56,C57, C50,C48,C49,C98,C100,C101,C82,C88,C90, C91,C92,C78,C80,C81,C68,C70,C71,C72,C58, C60,C61,C62,C41,C43,C44,C31,C33,C34,C35, C19,C20,C21,C25,C23,C24,C28,C29,C30 C38,C39,C40,C45,C98,C27 C8,C9,C104,C105,C18,C27,C37,C47,C54,C64, C74,C94,C84,C109	
10		10-10279-0-0	CAP .47 UF 25V, 20% CER	14													
11																	
12		10-12084-01	CAP 8 UF 25V AL.EL.	3												C10,C51,C107	
13																	
14		11-05275-00	DIODE D672	8												D2,D3,D4,D5,D24,D25,D26,D27	
15																	
16		12-13551-00	CONTACT, PIN, STRAIGHT POST (AMP)	78												J1 thru J4, J12 thru J85	
17																	
18		13-01317-00	RES. 10 1/4W 5% CC	2												R5,R49	
ECO. NO. <i>VL001</i>																	
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				SHEET 1 OF 2													

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:							
PARTS LIST														USED ON: OPTION/MODEL H228B							
MADE BY David Caruso		CHECKED <i>D. Borzman</i>		SECTION 1																	
DATE 11/18/76		DATE 21 FEB 77																			
ENG <i>W. Coates</i>		PROD <i>P.O. 14-10</i>		ISSUED SECTION 1																	
DATE 29 APR 77		DATE 29 Apr 77																			
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION													REF DESIGNATION					
19		13-00202-00	RES. 47 $\frac{1}{4}$ W 5% CC	2												R3,R44					
20		13-00365-00	RES 1K $\frac{1}{4}$ W 5% CC	4												R2,R8,R47,R114					
21		13-13217-00	RES NETWORK (6-150 Ω 1%, 1-15K 1%)	18												R46,R10,R12,R16,R20,R26,R30,R34,R38, R42,R14,R18,R22,R24,R28,R32,R36,R40					
22																					
23																					
24		13-13837-00	RES. NETWORK (8-110 Ω 5%)	4												R50,R51,R52,R53					
25		13-00229-00	RES. 100 $\frac{1}{4}$ W 5% CC	2												R4,R45					
26		15-13265-00	TRANSISTOR Q3725 QUAD	2												E71,E72					
27																					
28		16-10662-00	INDUCTOR, 100 UH, 10%	2												L1,L2					
29																					
30		19-10010-00	DIODE ARRAY DEC 2501-00	48												E6,E53,E54,E56,E57,E58,E59,E60,E12,E13, E14 thru E19,E9,E10,E33,E34,E22,E3,E23, E49,E64,E5C,E69,E38,E70,E39,F8,E29,E7, E30,E25,E26,E65,E45,E66,E46,E67,E42,E68, E5,E43,E4,E63,E55					
31																					
32																					
33																					
34																					
35		19-11748-00	I.C. DEC 7520	18												E51,E47,E41,E37,E35,E32,E36,E24,E61,E52, E48,E44,E31,E28,E27,E20,E21,E40					
36																					
37		19-12068-00	I.C. 74128	2												F2,F62					
E.C.O. NO.																					
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								SHEET 2 OF 3				INSERTION PARTS LIST DATA BASE REV <i>+</i>									
EN-01140A-16-R276(175)				DRB 125																	

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION												NOTES:			
PARTS LIST																USED ON OPTION/MODEL H228 B			
MADE BY Dave Caruso		CHECKED <i>S. Goodman</i>		SECTION 1															
DATE 11/18/76		DATE 21 FEB 77																	
ENG <i>W. Coates</i>		PROD <i>R.A. Hill</i>		ISSUED SECTION 1															
DATE 29 APR 77		DATE 29 APR 77																	
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION														REF DESIGNATION		
38	D-AD-70-10918-0-0	70 10918-0-0	DIODE PACK COMMON CATHODE (4-D672)	18													D7 THRU D23, D28		
39		90-09185-00	JUMPER, WIRE, INSULATED	3													W1, W2, W3		
40		91-07771-00	DIODE ASSEMBLY SPACER	36															
41		91-07784-00	TUBING, SHRINK. (AMP POST SPACER)	11															
42		90-09858-00	STANDOFF, SPECIAL (.426)	3															
43		90-09858-01	STANDOFF, SPECIAL (.376)	2															
44		90-08456-01	TAPE, ADHESIVE FOAM	A/R															
ECO. NO.																			
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				SHEET 3 OF 3				INSERTION PARTS LIST DATA BASE REV											

AUTOMATED BY PRTLST 10(11)

P A P E R S L I S T

SHEET 1 OF 4

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-CS-G657-0-1		CIRCUIT SCHEMATIC	REF	
2	2	D-MH-G657-0-6		MODULE ECO HISTORY	REF	
3	3	D-UA-G657-0-0		UNIT ASSEMBLY	REF	
4	4		5012147-00	G657	1	
5	5		1005820-00	22.0 MMF 100V 5%200PPM DM15S	(10-00) 1	C26
6	6		1000011-00	47.0 MMF 100V 5%200PPM DM15S	(10-00) 1	C8
7	7		1000015-00	82.0 MMF 100V 5%200PPM DM15S	(10-00) 3	C1-C3
8	8		1000023-00	330.0 MMF 100V 5%200PPM DM15S	(10-00) 18	C30,C34,C38,C42,C46,C50,C54, CONT C58,C62,C66,C70,C74,C82,C86, CONT C90,C94,C98,C78
9	9		1011683-00	.022 MFD 50V 10% 2C067 CER.	4	C5,C12,C17,C22
10	10		1010274-00	.22 MFD 50V X% 7C023 CER.	28	C16,C28,C136,C102-C124,C137, CONT C193
11	11		1010279-00	.47 MFD 25V 20% 2C023 CER.	22	C6,C13,C18,C23,C31,C35,C39, CONT C43,C47,C51,C55,C59,C63,C67, CONT C71,C75,C79,C83,C87,C91,C95, CONT C99
12	12		1012084-01	8 MFD 25V G% 30D AL EL	(10-12) 4	C11,C19,C20,C133
13	13		1012219-00	47. MFD 30V G% 600D AL EL	3	C195-C197
14	14		1000076-00	39 MFD 10V 10% 150D S,TA	(10-00) 1	C14
15	15		1105648-00	1N 4744 VZ= 15.0 10% 1W Y	4	D117,D119,D121,D123
16	16		1105275-00	D 672 TR= 15NS PIV= 60V SP	112	D1-D53,D55-D57,D59-D114
17	17		1110994-00	1N 751A VZ= 5.1 5% .40W P	2	D124,D125
18	18		1102421-00	1N 753A VZ= 6.2 5% .40W P	1	D115
19	19		1100125-00	1N 758A VZ= 10.0 5% .40W PPER S.A.V.EC	1	D116
20	20		1212104-00	CONN .100 7POS RT ANGLE	1	J89
21	21		1211720-00	SOCKET 1POS STRIP FORM S	70	J1-J4,J12-J85
22	22		1205747-00	FUSE, SUR-MINI, 5. MA, 125V, AXIAL LEAD	1	F1
23	23		1211164-01	SW,DIP 1P 1A SPOS	1	S1
24	24		1210929-03	FUSE, SUR-MINI .750A, 125V, AXIAL LEAD	19	F2-F20

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON: MM11-YP		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK	ECO NO	REV			MADE BY:	DATE:	TITLE			
F.R	00001	C	00		D CARUSO	09-MAR-78	PARTS LIST			
					CHECKED: R MANION	DATE: 09-MAR-78	32K SPC ELECTRONICS			
					DSN, ENG.: W COATES	DATE: 09-MAR-78				
					PROD.: R WILL	DATE: 09-MAR-78	SIZE:	CODE:	DOCUMENT NUMBER	REV
							K	PL	G657-H-DBP	IC
					PREP, ENG.: W COATES	DATE: 09-MAR-78	ASSY. NO.: B-PL-G657-0-0			EDIT#
										7

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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
25	25		1305114-00	3.48 K 1/4W 1% RN55D-F 100PPM	(13-00 1	R63
26	26		1302091-00	330 K 1/4W 5% CC	(13-00 1	R154
27	27		1312466-06	75 1W 1% WW	(13-00 1	R155
28	28		1312466-04	.5 1W 1%	(13-00 1	R29
29	29		1301317-00	10 1/4W 5% CC	(13-00 1	R37
30	30		1312466-00	10 1W 1% WW	(13-00 4	R21,R32,R43,R51
31	31		1301425-00	300 1/4W 5% CC	(13-00 18	R74,R78,R82,R86,R90,R94,R98, CONT R102,R106,R110,R114,R118,R122, CONT R126,R130,R134,R139,R144 CONT R13,R30,R40,R48,R73,R75-R77, CONT R79-R81,R83-R85,R87-R89, CONT P91-R93,R95-R97,R99-R101, CONT R103-R105,R107-R109,R111-R113, CONT R115-R117,R119-R121,R123-R125, CONT R127-R129,R131-R133,R135,R136, CONT R138,R140,R141,R143,R145,R153, CONT R44
32	32		1301969-00	22 1/4W 5% CC	(13-00 59	R1,R5,R20 CONT R4,R8,R9,R11 CONT R150 CONT R41,R52 CONT R19 CONT R146,R148 CONT R56,R151 CONT R12,R10 CONT R18 CONT R3,R7,R35,R38,R72,R137,R142, CONT R152 CONT R53,R14 CONT R57 CONT R36 CONT R54 CONT R17,R26 CONT R55,R59,R60,R64-R68 CONT R69,R70 CONT R58 CONT R61 CONT R25,R62 CONT R71 CONT R23 CONT R27,R28 CONT R22 CONT R15 CONT R2,R6 CONT Q8 CONT Q9 CONT Q10 CONT Q4-Q7
33	33		1302602-00	56 1/4W 5% CC	(13-00 3	
34	34		1300229-00	100 1/4W 5% CC	(13-00 4	
35	35		1304856-00	4.64 K 1/4W 1% RN55D-F 100PPM	(13-00 1	
36	36		1300250-00	150 1/4W 5% CC	(13-00 2	
37	37		1305124-00	287 1/4W 1% RN55D-F 100PPM	(13-00 1	
38	38		1300274-00	220 1/2W 5% CC	(13-00 2	
39	39		1312123-00	220 3W 1% WW	(13-00 2	
40	40		1301972-00	270 1/4W 5% CC	(13-00 2	
41	41		1303067-00	422 1/4W 1% RN55D-F 100PPM	(13-00 1	
42	42		1300365-00	1 K 1/4W 5% CC	(13-00 8	
43	43		1303045-00	3.16 K 1/4W 1% RN55D-F 100PPM	(13-00 2	
44	44		1304855-00	9.09 K 1/4W 1% RN55D-F 100PPM	(13-00 1	
45	45		1300447-00	4.7 K 1/4W 5% CC	(13-00 1	
46	46		1305324-00	4.99 K 1/4W 1% RN55D-F 100PPM	(13-00 1	
47	47		1303312-00	10.0 K 1/4W 1% RN55D-F 100PPM	(13-00 2	
48	48		1300479-00	10 K 1/4W 5% CC	(13-00 8	
49	49		1302941-00	14.7 K 1/4W 1% RN55D-F 100PPM	(13-00 2	
50	50		1309419-00	19.6 K 1/4W 1% RN55D-F 100PPM	(13-00 1	
51	51		1303156-00	34.8 K 1/4W 1% RN55D-F 100PPM	(13-00 1	
52	52		1305252-00	68.1 K 1/4W 1% RN55D-F 100PPM	(13-00 2	
53	53		1303219-00	82 K 1/4W 5% CC	(13-00 1	
54	54		1305255-00	121 K 1/4W 1% RN55D-F 100PPM	(13-00 1	
55	55		1309595-00	1 M 1/4W 5% CC	(13-00 2	
56	56		1304843-00	243 K 1/4W 1% RN55D-F 100PPM	(13-00 1	
57	57		1309785-00	300 2% THERMISTOR	(13-00 1	
58	58		1300202-00	47 1/4W 5% CC	(13-00 2	
59	59		1503409-01	DEC6534B PNP 310MW 81 40 90 P	1	
60	60		1509605-00	2N 4920 PNP 30WC 81 80 20 S	1	
61	61		1505321-00	DEC4258 PNP 200MW 81 12 30 M	1	
62	62		1510959-00	2N 3725 NPN 3.5WC 81 50 60 P	4	

TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	32K SPC ELECTRONICS	K	PL	G657-0-D8P	C

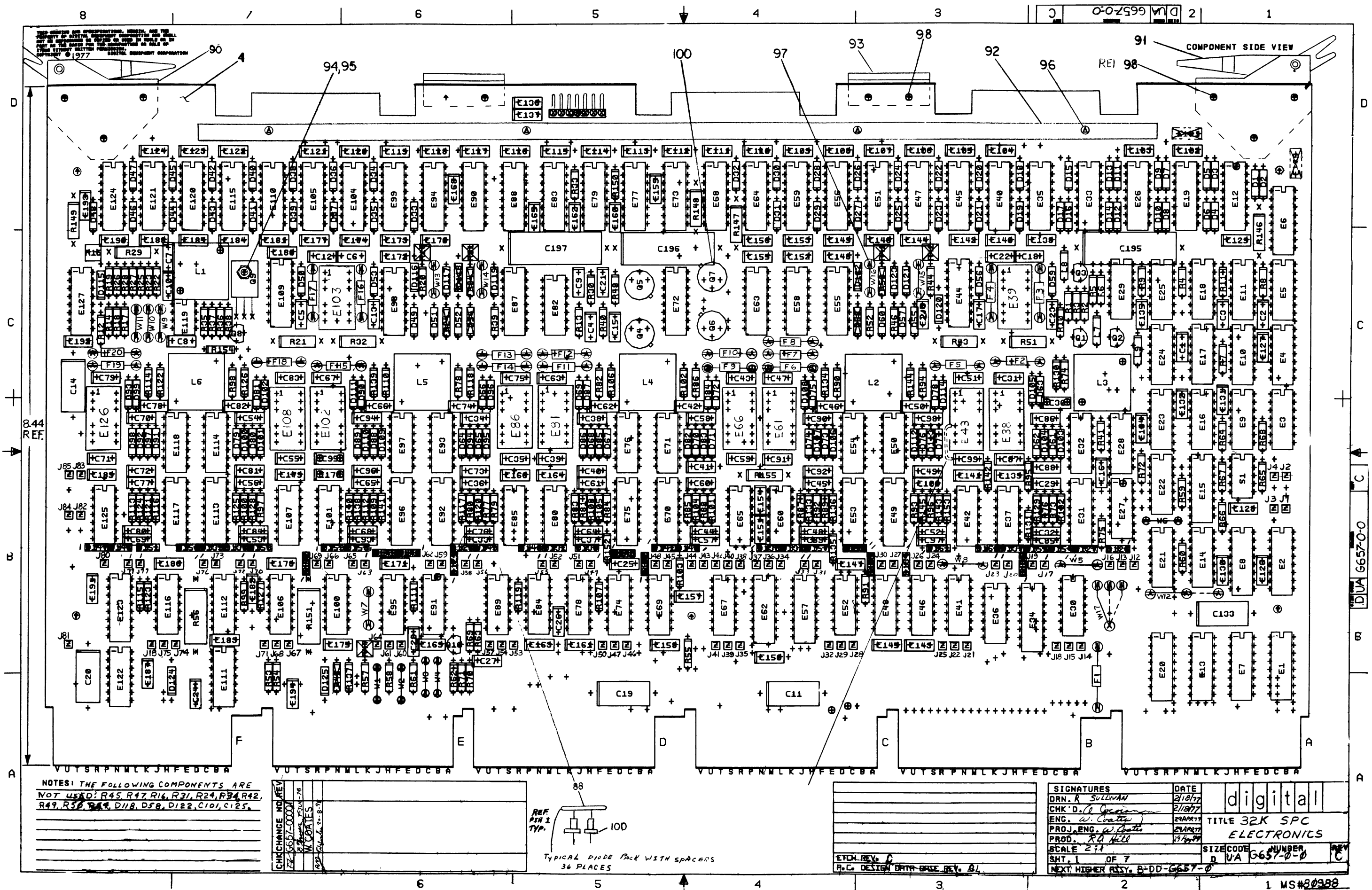
LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
63	63	1513265-00	3725 QUAD CORE DRIVER	9	E32,E50,E71,E76,E93,E97,E54,
				CONT	E114,E118
64	64	1503100-00	DEC3009B NPN 200MW SI 20 25 P	3	Q1-Q3
65	65	1510962-00	XFMR,SATURATING(Y,7)	2	E39,E103
66	66	1609996-00	PULSE XFMR BH001-0107 DEC5 22	10	E31,E49,E53,E70,E72,E75,E92,
				CONT	E96,E113,E117
67	67	1611243-00	DELAY=25-250NS,10TAPS RCL:L=103 E PE#9029	3	E5,E11,E18
68	68	1610662-00	100.0 UH 100 165MA .00D1 00	3	L7-L9
69	69	1610963-00	400 UH 900MA,.30HMS	6	L1-L6
70	70	1613820-00	XFMR,SATURATING(INHIBIT)	9	E30,E43,E61,E66,E81,E86,E102,
				CONT	E100,E126
71	71	1910878-00	7427 NOR GATE=TRIPLE 3IN	1	E25
72	72	1905578-00	7430 NAND GATE=SINGLE 8INPUT	2	E21,E22
73	73	1910541-00	74840 NAND GATE=DUAL 4IN,BUFFER 16	1	E112
74	74	1910046-00	7442 DECODER=1 OF 10,BCD SELECTED	7	E6,E44,E55,E07,E90,E109,E127
75	75	1909050-00	7475 LATCH 4BIT	5	E2,E0,E58,E63,E123
76	76	1910230-00	74121 ONE SHOT	1	E78
77	77	1912068-00	74128 DRIVER,LINE,QUAD,50/75 OHM	13	E3,E4,E9,E37,E42,E60,E65,E80,
				CONT	E82,E85,E101,E107,E125
78	78	1909932-01	7483A ADDER=4BIT W/LOOK AND CARRY	1	E15
79	79	1909058-00	74H21 AND GATE=DUAL 4INPUT	2	E04,E91
80	80	1909060-00	DEC 74H50 A=0-I XPNDBLE GATE=DUAL 2X2	1	E24
81	81	1910532-00	74800 NAND GATE=QUAD 2IN8	5	E17,E23,E20,E100,E122
82	82	1912389-00	74808 AND GATE=QUAD 2IN,POS	14	E16
83	83	1910534-00	74804 INVERTER GATE=HEX 1IN	3	E10,E14,E29
84	84	1910544-00	74874 FF-D DUAL,EDGE TRIGGER	10	E27,E30,E41,E52,E67,E74,E89,
				CONT	E95,E100,E116
85	85	1911469-00	DEC 8640 RECEIVER,BUS,QUAD,UNIBUS,Q=8U	5	E36,E46,E48,E69,E111
86	86	1911579-00	8641 TRANSCEIVER,BUS,QUAD,UNIBUS	7	E1,E7,E13,E20,E34,E57,E62
87	87	1910298-00	741 OP AMP GEN PURP, COMPENSATED D	1	E119
88	88	1910960-00	DEC 75325 DRIVER,CORE MEMORY,DUAL	20	E12,E19,E26,E33,E35,E40,E45,
				CONT	E47,E51,E56,E59,E64,E68,E73,
				CONT	E77,E79,E83,E88,E90,E94,E99,
				CONT	E104,E105,E110,E115,E120,E121,
				CONT	E124
89	89	7010918-05	DIODE PKG COMMON CATHODTE	36	D126,D127-D161
90	90	7415338-00	LEFT HANDLE ASSY	1	
91	91	7415337-00	RIGHT HANDLE ASSY	1	
92	92	1214237-00	BAR,STIFFENER W/10 INSERTS 8	1	
93	93	1213567-00	HANDLE,MODULE(SEGMENT)	2	
94	94	9006557-00	NUT,KEP , 4-40X 1/4 AF	C5	1
95	95	9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16 SS/PAS	1	
96	96	9000008-01	SCREW, NYLON, SLID PAN HD, 2-56 X .107	9	
97	97	9006735-00	EYELET, FUNNEL FLANGE, .059 OD X .107 LG	77	
98	98	9000024-01	EYELET, ROLLED FLANGE, .121 OD X .196 LG	10	
99	99	9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	17	W1-W17
100	100	9007201-00	TRANSIPADS #10253	4	
101	101	9107771-00	TUBING,STRD WALL,.040ID ULS	72	

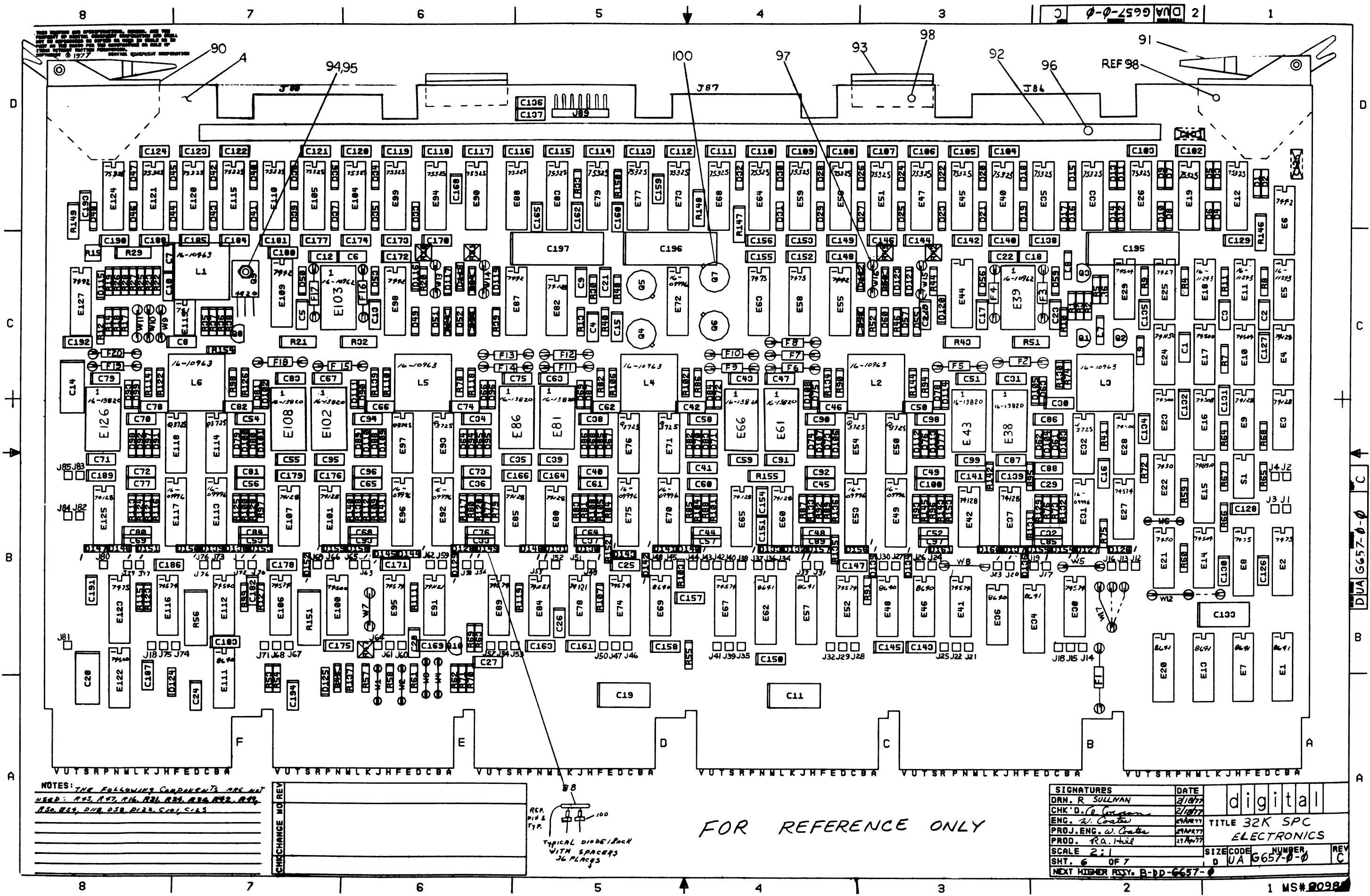
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PARTS LIST 32K SPC ELECTRONICS	SIZE K	CODE PL	DOCUMENT NUMBER G657-B-DMP	REV C
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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
102	102		1305128-00	5.62 K 1/4W 1% RH55D-F 100PPM (13-00	1	R33
103	103		1300249-00	150 1/2W 5% CC (13-00	2	R147,R149
104	104		1300247-00	120 1/4W 5% CC (13-00	1	R39
105	105		1303178-00	620 1/4W 5% CC (13-00	1	R46
106	106		1110036-00	1N 759A VZ= 12.0 5% .40W P	1	D120
107	107	SEE NOTE 109	1001610-00	.01 MFD 50V Z5U 309CER/8000PF MIN	110	C4,C7,C9,C10,C15,C21,C24,C25, CONT C27,C29,C32,C33,C36,C37,C40, CONT C41,C44,C45,C48,C49,C50,C57, CONT C60,C61,C64,C65,C68,C69,C72, CONT C73,C76,C77,C80,C81,C84,C85, CONT C88,C89,C92,C93,C96,C97,C100, CONT C52,C53,C126,C128,C130-C132, CONT C134,C135,C138-C166,C168-C192, CONT C194,C210,C127,C129
108	108		9105740-55	WIRE(WRAP)30AWG UL1423 (91-00	A/R	

109 NOTE: 10-01610-01 CAN BE USED IN PLACE OF 10-01610-00

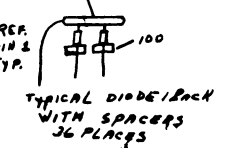
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE 32K SPC ELECTRONICS	SIZE K	CODE PL	DOCUMENT NUMBER G657-0-DBP	REV C
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NOTES: THE FOLLOWING COMPONENTS ARE NOT USED: R25, R27, R16, R26, R28, R29, R30, R32, D18, D28, D123, C101, C123

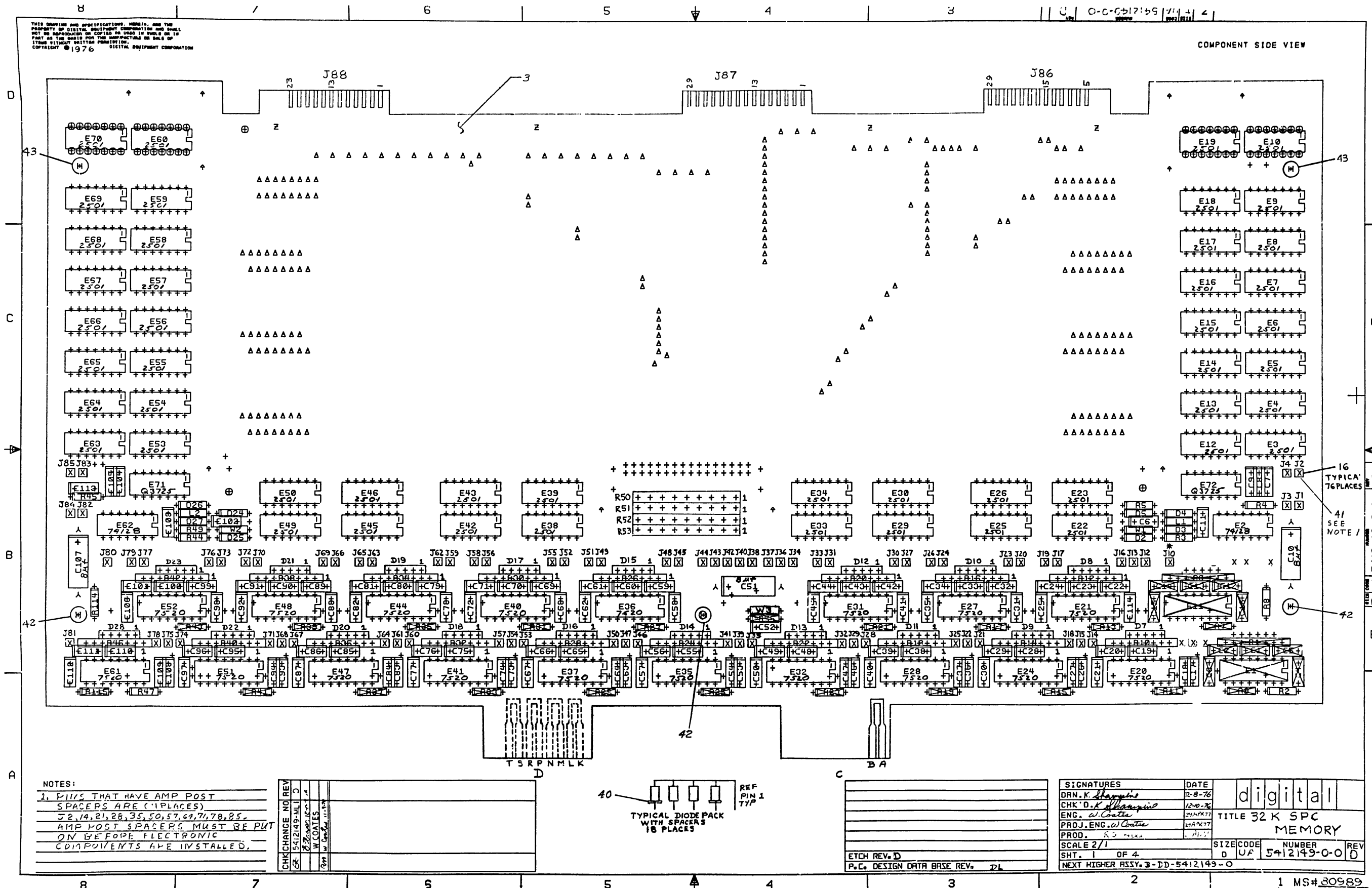
CHANGE	NO	REV



FOR REFERENCE ONLY

SIGNATURES		DATE	digital
DRN. R. SULLIVAN		2/8/77	
CHK'D. G. WILSON		2/10/77	TITLE 32K SPC ELECTRONICS
ENG. W. COATES		2/10/77	
PROD. R.A. HILL		2/10/77	SCALE 2:1 SHT. 6 OF 7 NEXT HIGHER ASSY. B-DD-6657-0
			SIZE CODE NUMBER REV
			D UA 6657-0-0 C

1 MS# 0098



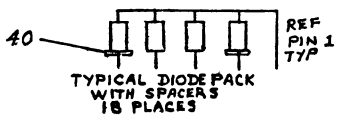
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COMPONENT SIDE VIEW

16
TYPICAL
76 PLACES
41
SEE NOTE 1

- NOTES:
- 1. PINS THAT HAVE AMP POST SPACERS ARE (1 PLACES) 2, 14, 21, 28, 35, 50, 57, 69, 74, 78, 85.
 - AMP POST SPACERS MUST BE PUT ON BEFORE ELECTRONIC COMPONENTS ARE INSTALLED.

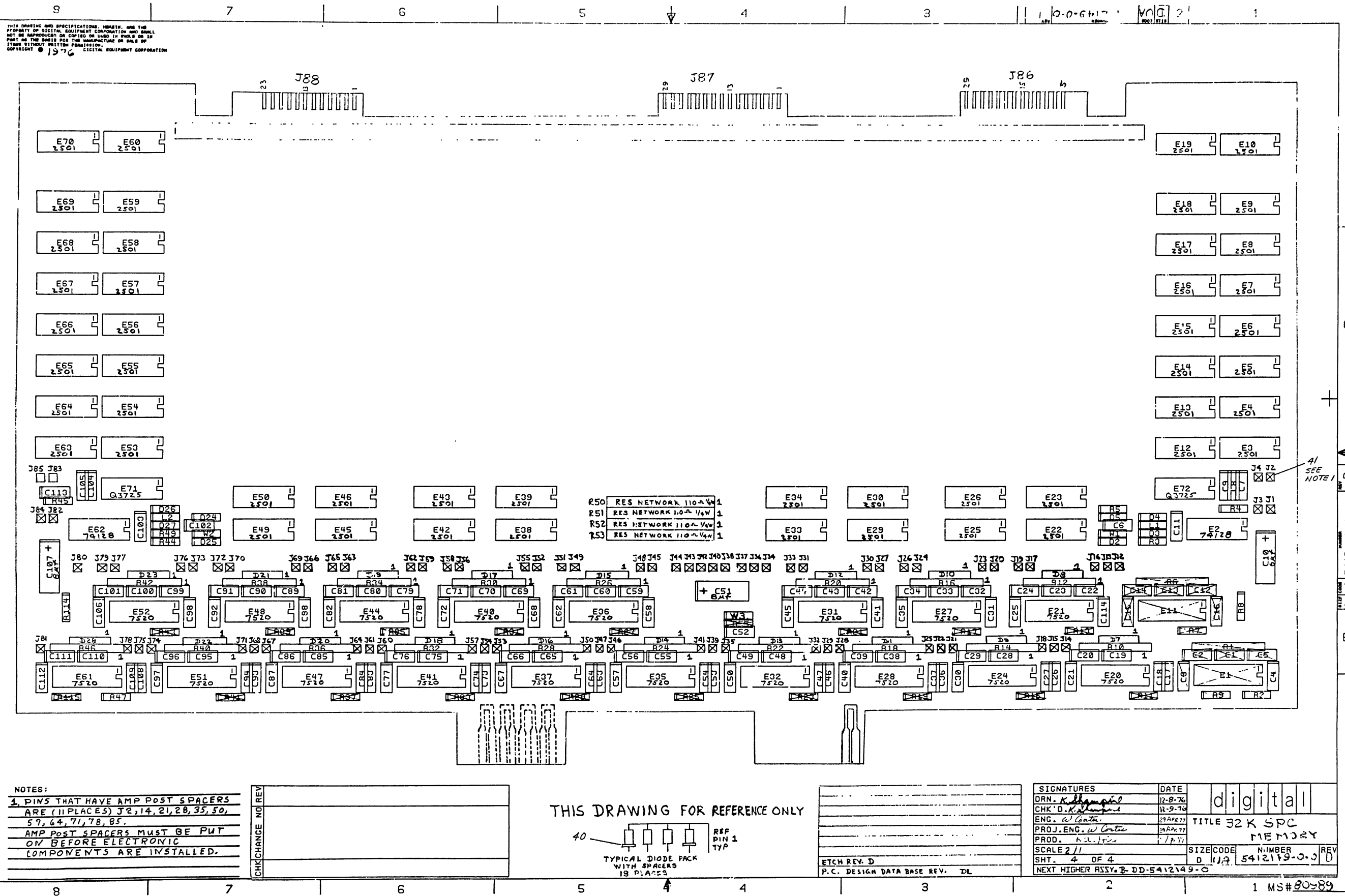
CHANGE NO	REV
02	5412149-ML1 J
01	5412149-ML1 J
01	W COATES
01	W COATES



ETCH REV. D
P.C. DESIGN DATA BASE REV. DL

SIGNATURES		DATE	digital	TITLE 32K SPC MEMORY
DRN. K. Thompson		12-8-76		
CHK'D. K. Thompson		12-8-76	SIZE CODE	NUMBER
ENG. W. Coates		12-8-76		
PROJ. ENG. W. Coates		12-8-76	D	5412149-0-0
PROD. R. G. Miller		12-8-76		
SCALE 2/1		OF 4	REV	
SHT. 1		OF 4	D	
NEXT HIGHER ASSY. 3-DD-5412149-0				

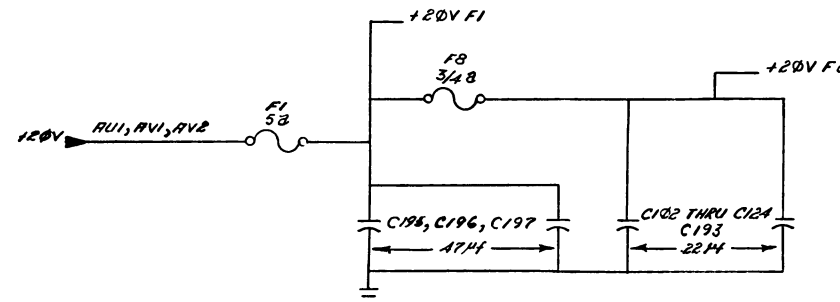
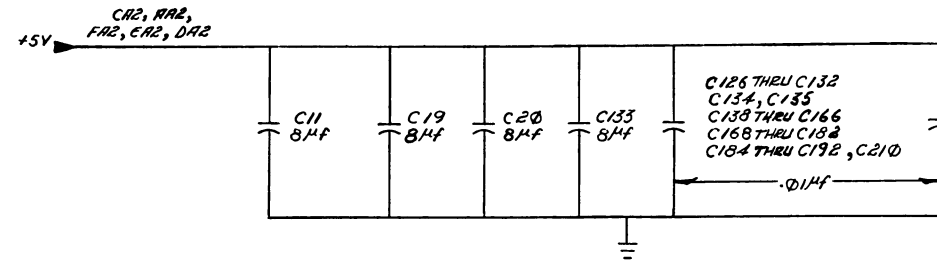
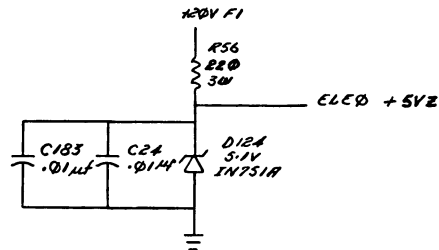
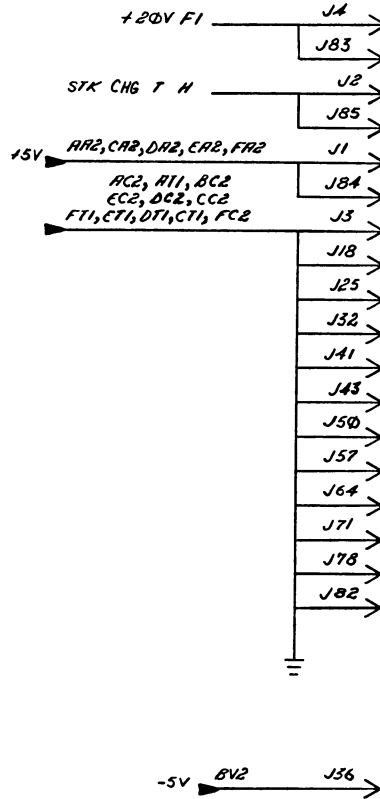
1 MS# 80989



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BANK SELECTION

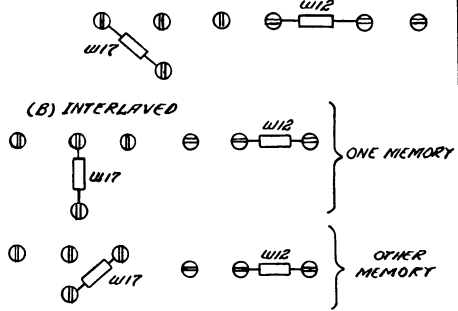
	NON INTER LEAVED	INTER LEAVED	A17	A16	A15	A14	A13
5K	ERR1	ERR1	S11	S12	S13	S14	S15
8	32K	64K	ON	ON	ON	ON	ON
4K	36K	68K	ON	ON	ON	ON	ON
8K	40K	72K	ON	ON	ON	OFF	ON
12K	44K	76K	ON	ON	ON	OFF	OFF
16K	48K	80K	ON	ON	OFF	ON	ON
20K	52K	84K	ON	ON	OFF	ON	OFF
24K	56K	88K	ON	ON	OFF	OFF	ON
28K	60K	92K	ON	ON	OFF	OFF	OFF
32K	64K	96K	ON	OFF	ON	ON	ON
36K	68K	100K	ON	OFF	ON	ON	OFF
40K	72K	104K	ON	OFF	ON	OFF	ON
44K	76K	108K	ON	OFF	ON	OFF	OFF
48K	80K	112K	ON	OFF	OFF	ON	ON
52K	84K	116K	ON	OFF	OFF	ON	OFF
56K	88K	120K	ON	OFF	OFF	OFF	ON
60K	92K	124K	ON	OFF	OFF	OFF	OFF
64K	96K	128K	OFF	ON	ON	ON	ON
68K	100K	132K	OFF	ON	ON	ON	OFF
72K	104K	136K	OFF	ON	ON	OFF	ON
76K	108K	140K	OFF	ON	ON	OFF	OFF
80K	112K	144K	OFF	ON	OFF	ON	ON
84K	116K	148K	OFF	ON	OFF	ON	OFF
88K	120K	152K	OFF	ON	OFF	OFF	ON
92K	124K	156K	OFF	ON	OFF	OFF	OFF
96K	128K	160K	OFF	OFF	ON	ON	ON
100K	132K	164K	OFF	OFF	ON	ON	OFF
104K	136K	168K	OFF	OFF	ON	OFF	ON
108K	140K	172K	OFF	OFF	ON	OFF	OFF
112K	144K	176K	OFF	OFF	OFF	ON	ON
116K	148K	180K	OFF	OFF	OFF	ON	OFF
120K	152K	184K	OFF	OFF	OFF	OFF	ON



NOTES:

1. INTERVIEW CONTROL IS ACHIEVED AS FOLLOWS:

(A) NON-INTERLEAVED.



(C) THE BANK SELECTION SWITCH MUST BE SET THE SAME ON BOTH MEMORIES.

2. UNDER NORMAL CONDITIONS (W5, W6, OUT) THE MEMORY WILL NOT RESPOND TO ADDRESS BETWEEN 124K AND 126K, BECAUSE THESE ADDRESSES ARE RESERVED FOR PERIPHERAL DEVICES ON THE UNIBUS. FOR SPECIAL APPLICATIONS WHERE THE RANGE OF PERIPHERAL ADDRESS IS MORE RESTRICTED THAN THIS 4K RANGE THE MEMORY CAN BE CONFIGURED TO INCLUDE THE ADDITIONAL UNIBUS ADDRESSES AS FOLLOWS.

W5 IN } 124K TO 126K

W6 OUT } 124K TO 126K

W5 IN } 124K TO 127K

W6 IN } 124K TO 127K

NOTE THAT FOR SYSTEMS WITHOUT MEMORY MANAGEMENT, THIS MEANS THE USEFUL VIRTUAL ADDRESS SPACE FOR MEMORY CAN BE EXTENDED FROM 28K TO 30K OR 31K, BY SACRIFICING SOME PERIPHERAL SPACE.

CAUTION: SOME DIGITAL SOFTWARE MAY NOT BE COMPATIBLE WITH THE REDUCED PERIPHERAL ADDRESS SPACE. TO ASSURE COMPATIBILITY W5 AND W6 MUST BE OUT.

3. SCHEMATIC FOR 1228 MEMORY STACK IS SHOWN ON CS-5412149-D-1.

4.

MODE	WR BYTE 0 L WR BYTE 1 L	CLOCK 0 H CLOCK 1 H	CLEAR 0 L CLEAR 1 L	STROBE UNLASH UNLASH STROBE LUNASH LUNASH	OUT EN L
DATAI { BUS C0 = H BUS C1 = H	H	L	L	L	L
DATO { BUS C0 = H BUS C1 = L	L	L	H	H	H
DATOB { BUS C0 = L BUS C1 = L BUS A0 = H (LO BYTE)	L	L	H	L	H
DATOB { BUS C0 = L BUS C1 = L BUS A0 = L (UP BYTE)	H	L	L	H	H

5. W1, W2, W3, W4, W9, W10, W11, MUST BE INSTALLED BEFORE MEMORY TEST.

6. W7 AND W8 CONTROL BITS 16 AND 17. (A) FOR 16 BIT SYSTEM W7 AND W8 OUT. (B) FOR 18 BIT SYSTEM W7 AND W8 IN.

DRN. <i>Spiegel</i> <i>Rm</i> 1/23/77	FIRST USED ON	MM11-YP	DIGITAL
CHK'D <i>W. Coates</i> 29 APR 77	TITLE	(ELE0) 32K SPEC	
ENG. <i>W. Coates</i> 29 APR 77	ELECTRONICS		
PROJ. ENG. <i>W. Coates</i> 29 APR 77			
PROD. <i>W. Coates</i> 27/10/77			
NEXT HIGHER ASSY.			
B-DD-G657-0	SIZE	CODE	NUMBER
SCALE	NCNE	D	CS
SHEET	1	OF	18
REV.	C	REV.	C

B

A

D

C

C

B

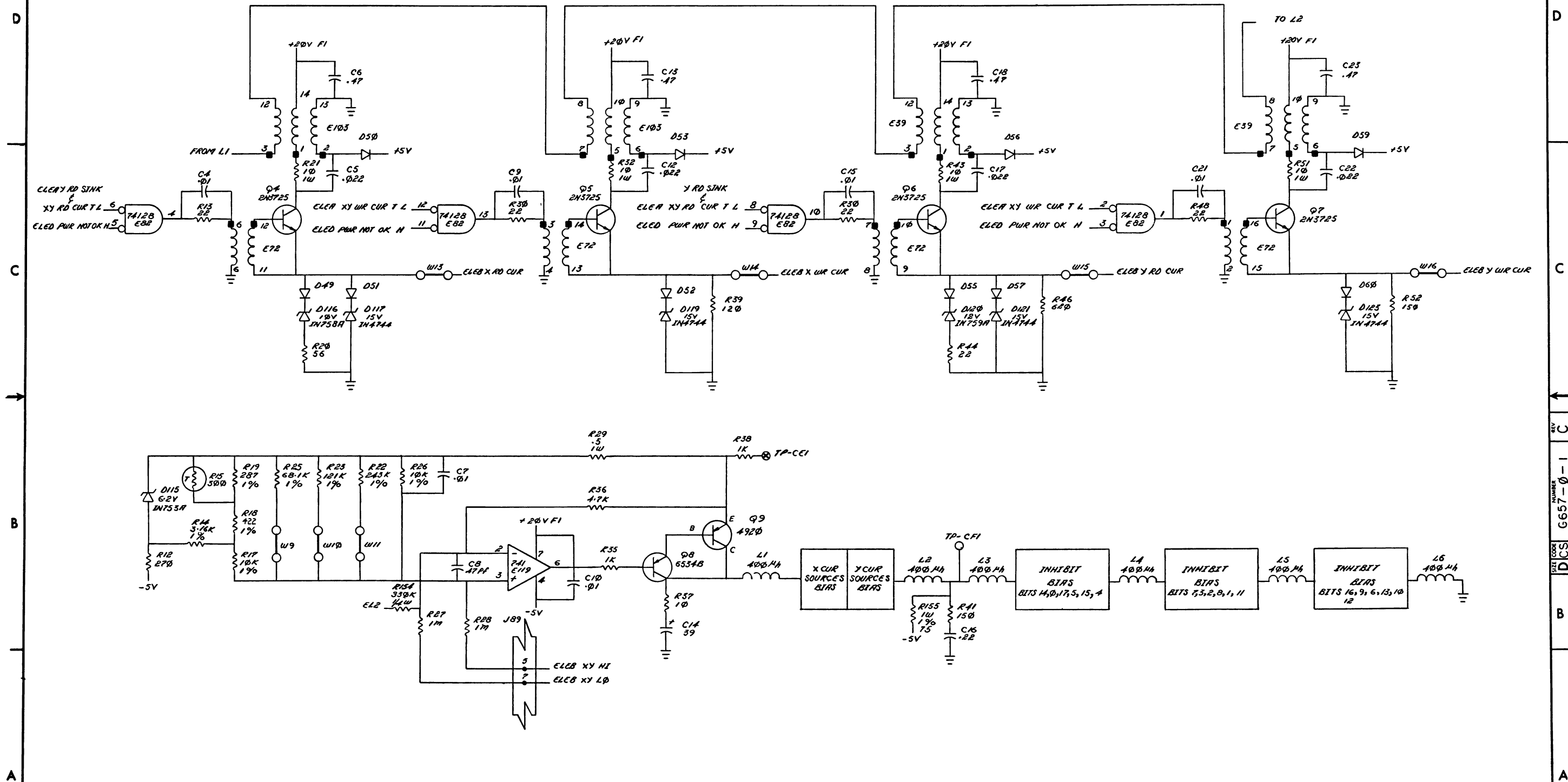
A

BUS GRANT LINES
DK2-DL2
DM2-DN2
DP2-DR2
DS2-DT2
CA1-CB1



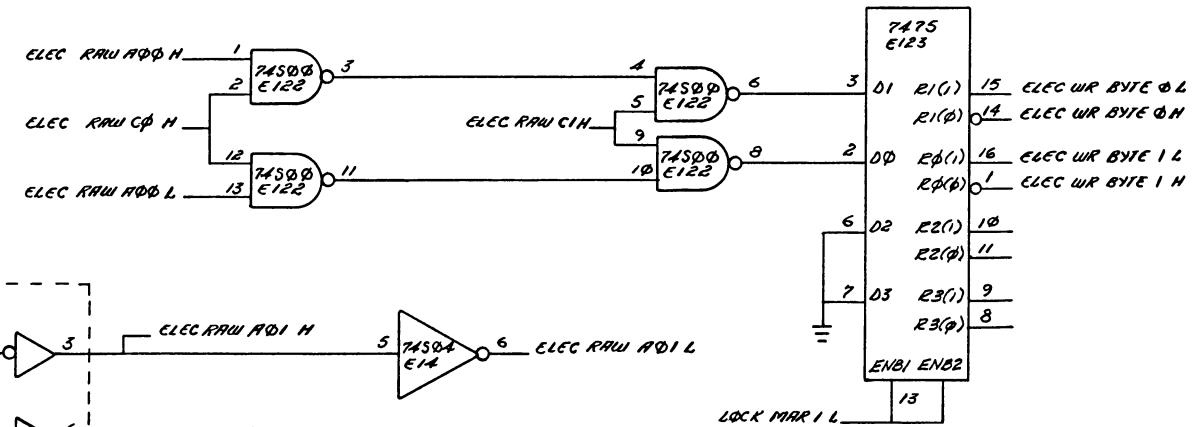
TITLE		(ELEA)	SIZE CODE	NUMBER	REV.
32K SPC ELECTRONICS			D CS	G657-0-1	C
SCALE	NO. OF	SHEET 2 OF 18	DIST.		

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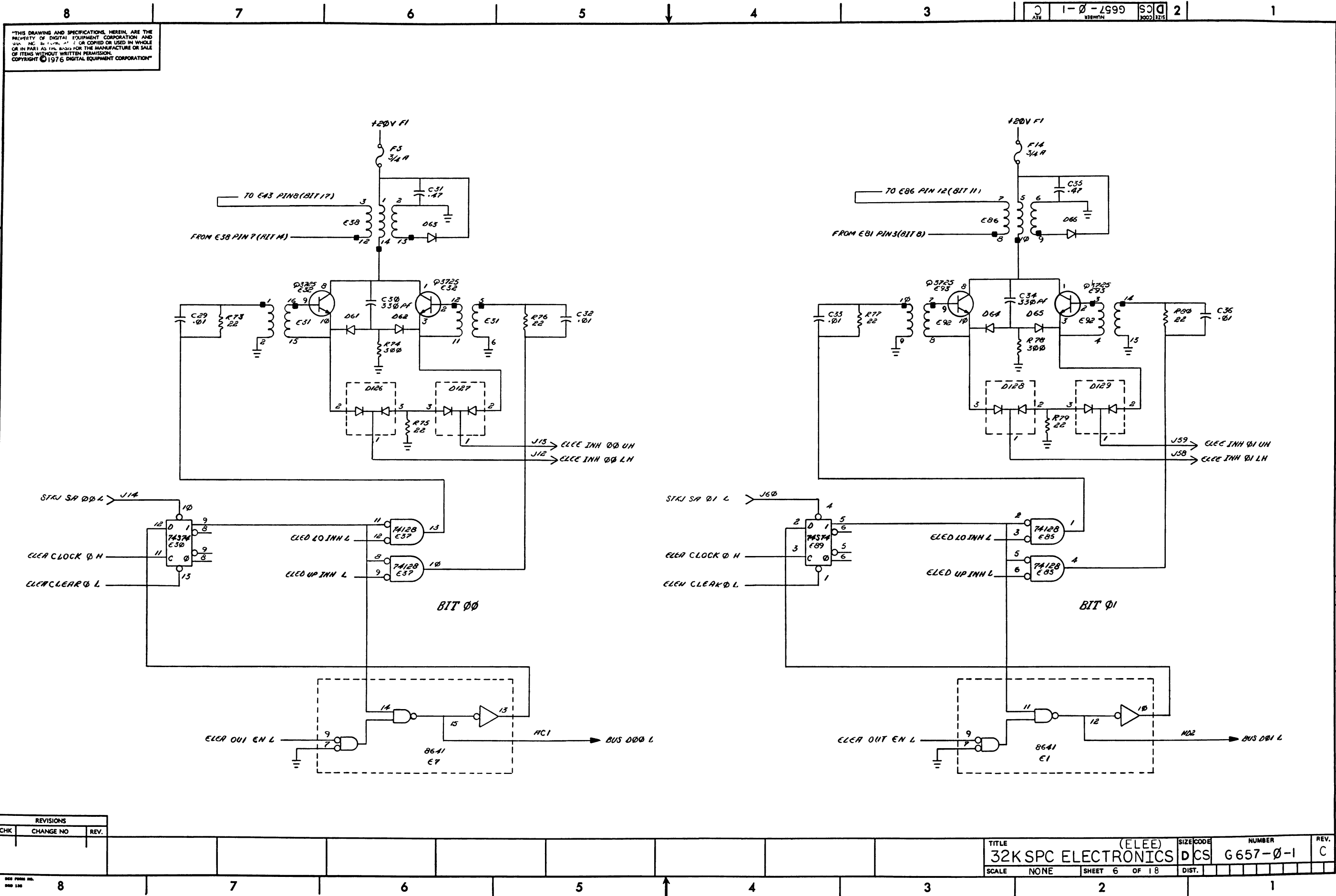
REVISIONS		
CHK	CHANGE NO.	REV

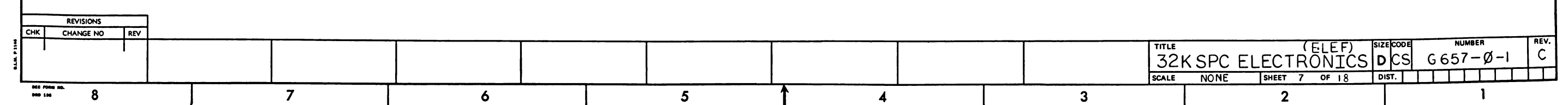
A

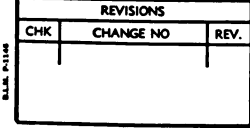


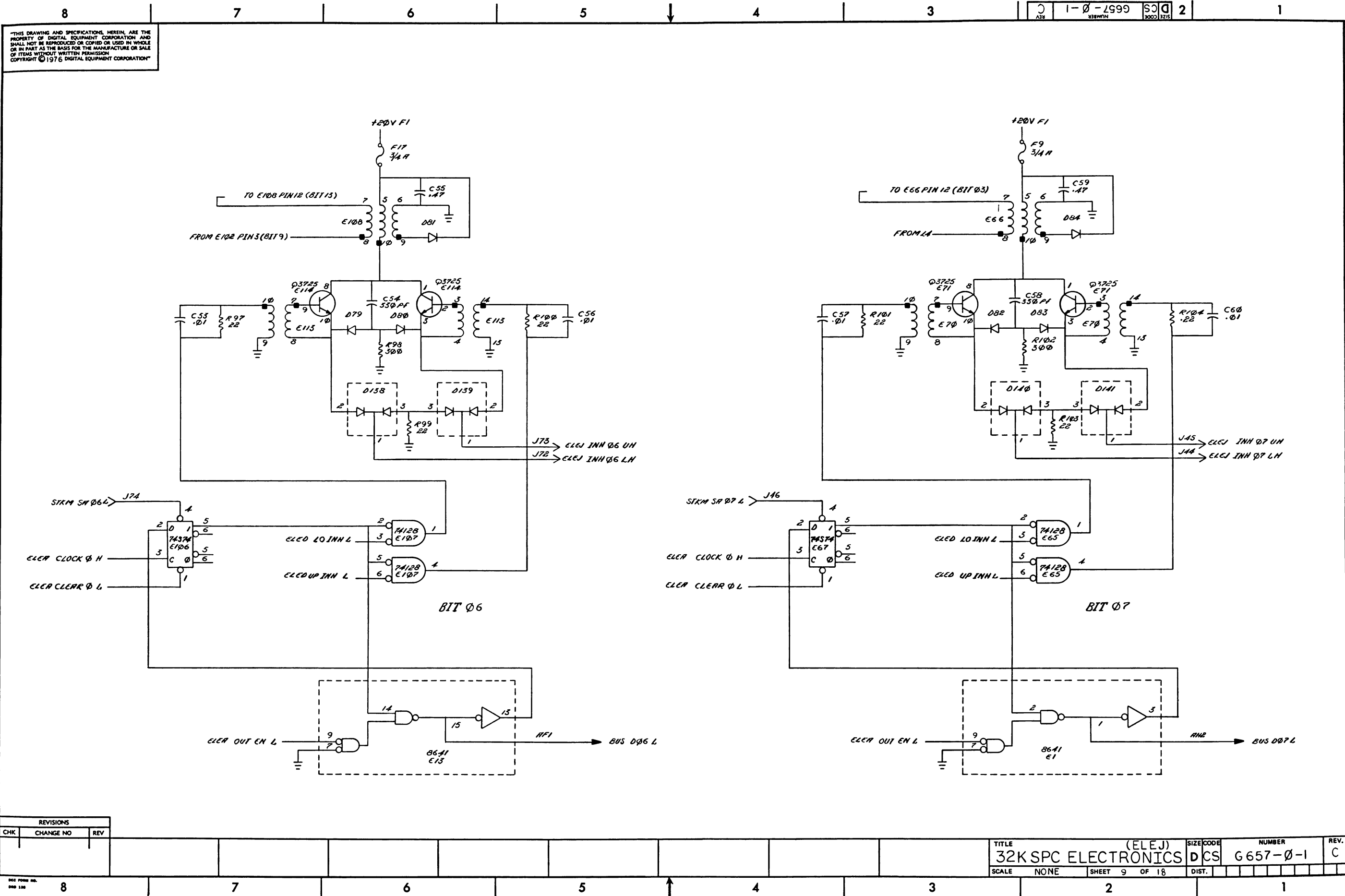
TITLE		(ELEC)	SIZE	CODE	NUMBER	REV.
32K SPC ELECTRONICS			D	CS	G657-0-1	C
SCALE	NONE	SHEET	4	OF	18	
DIST.						

The diagram shows four 74H21 decoders. The inputs are LRT A15 L, WR BYTE Φ L, WR BYTE I L, and LRT A15 H. The outputs are J37, J40, J38, and J42, which are connected to the ELED STB LHL B H, ELED STB LHUB H, ELED STB UHLB H, and ELED STB UHUB H respectively.

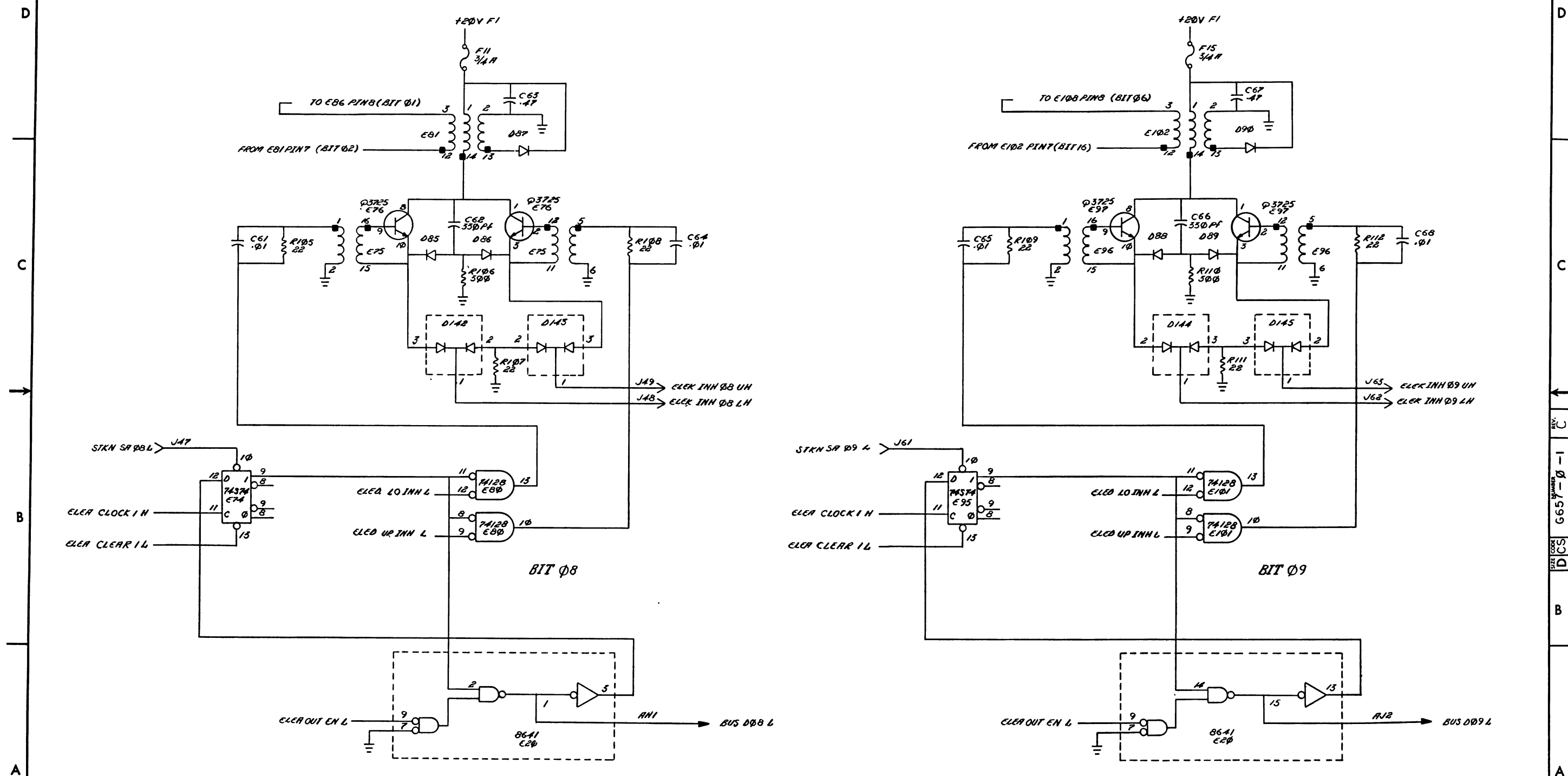






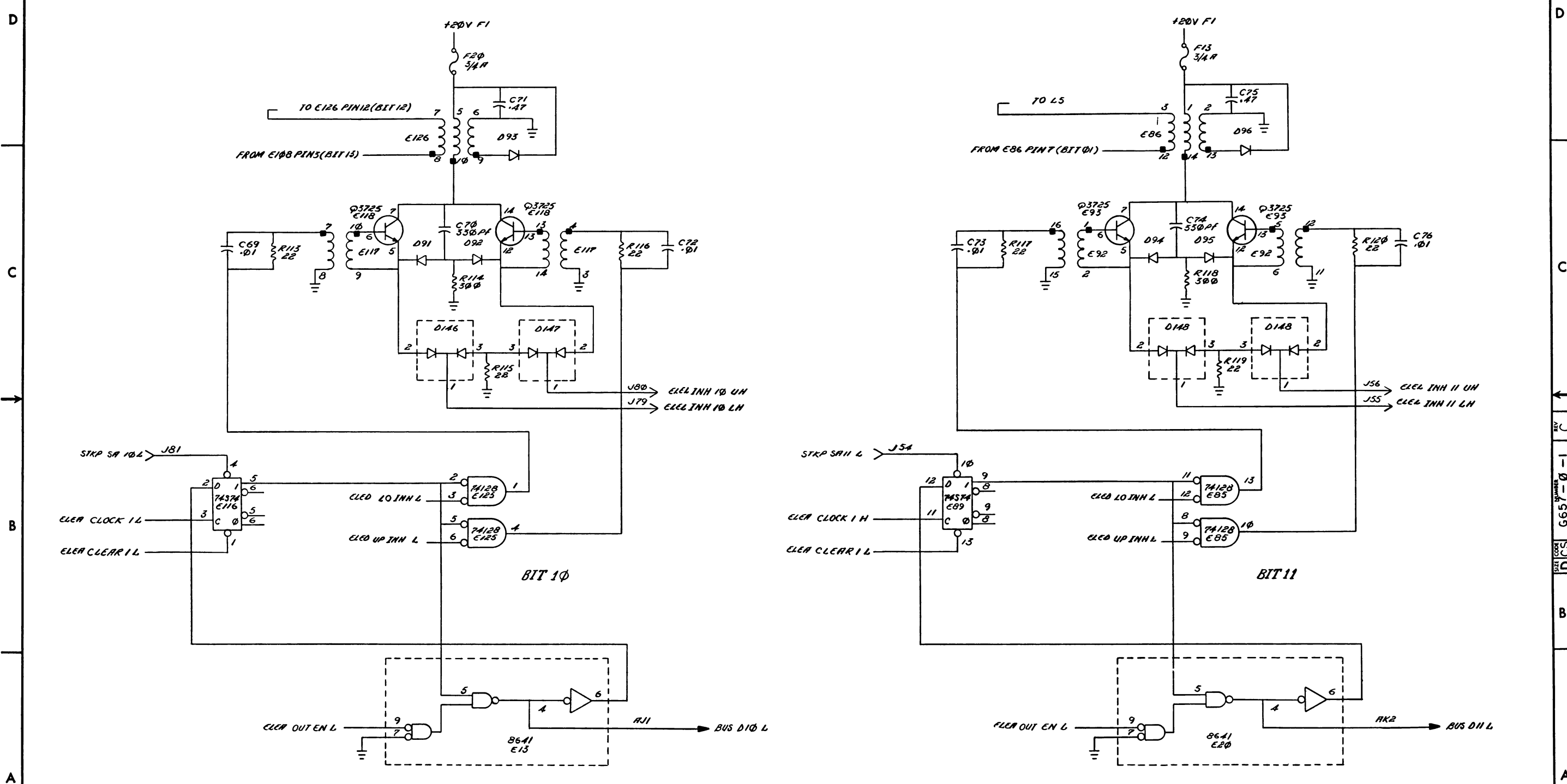


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REVISIONS		
CHK	CHANGE NO	REV.

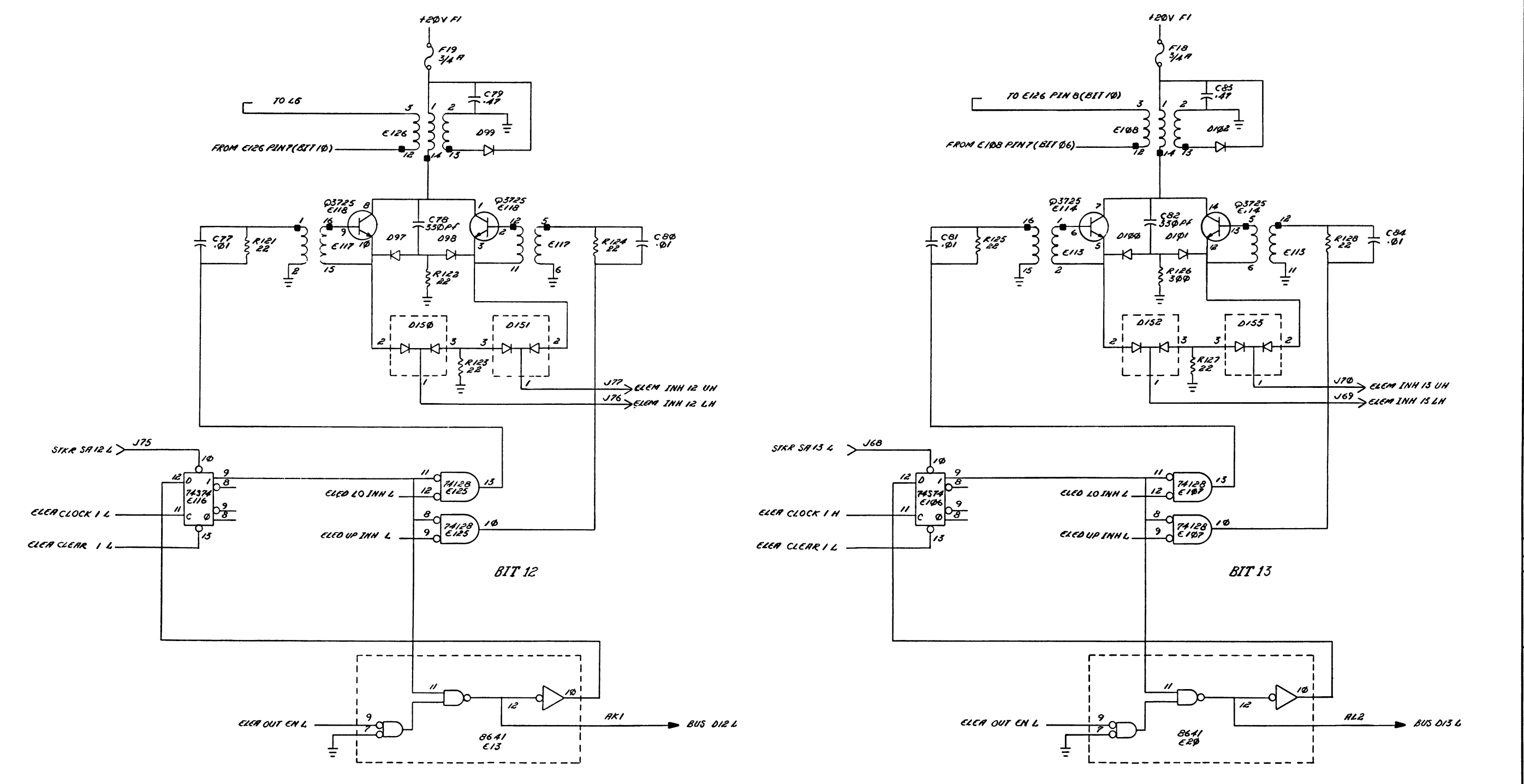
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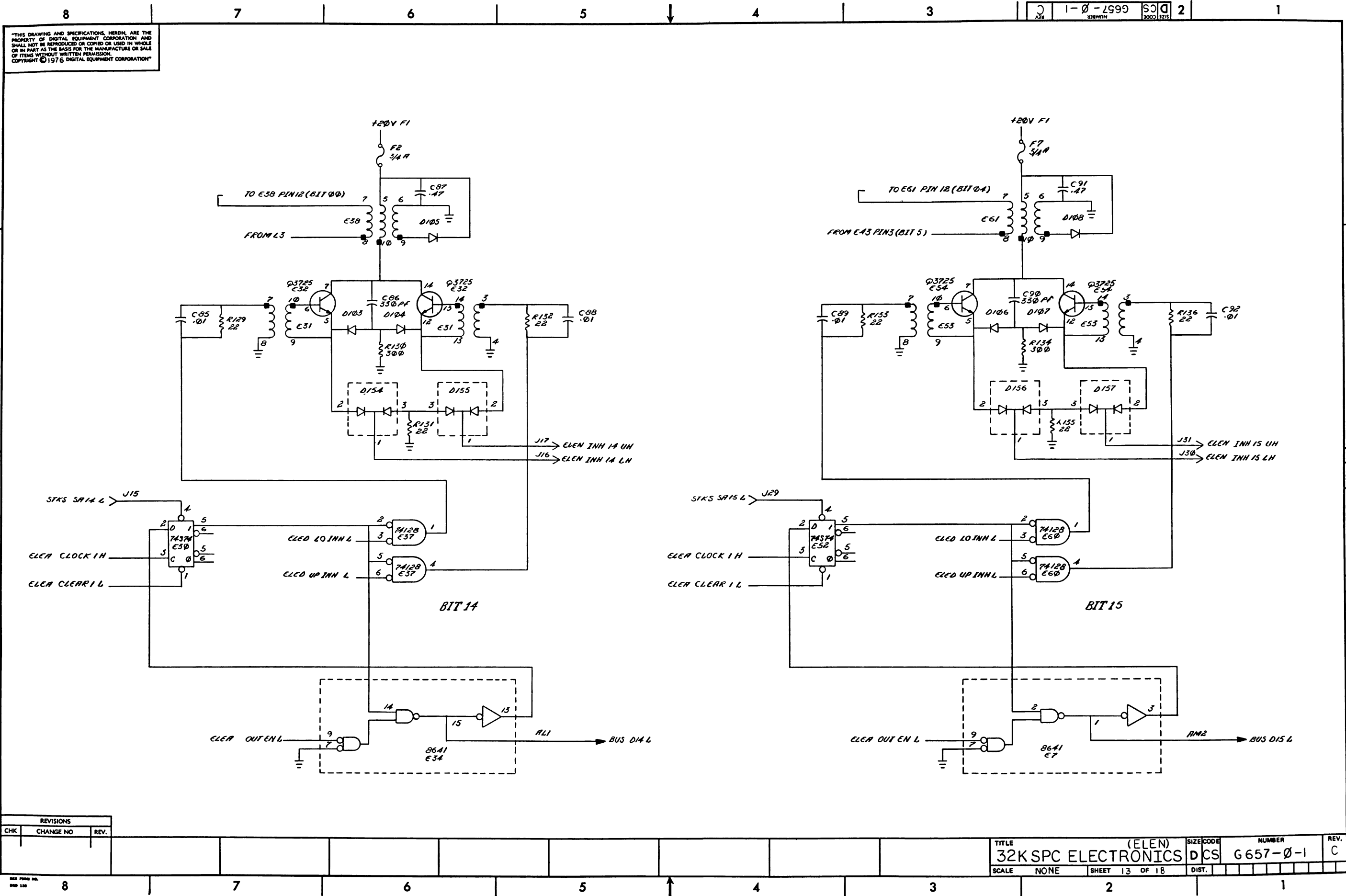
REVISIONS		
CHK	CHANGE NO	REV.

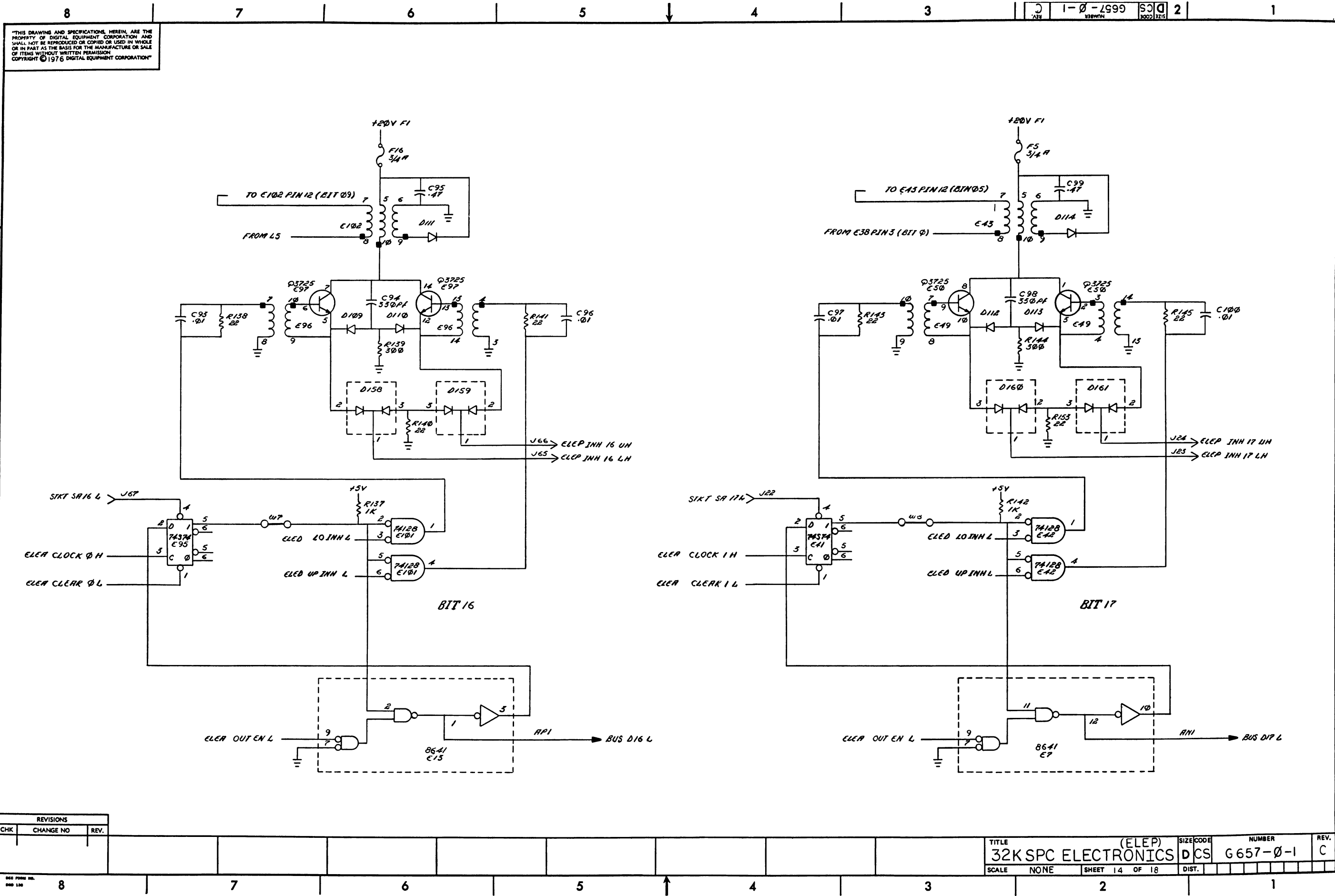
TITLE		(EEL)	SIZE	CODE	NUMBER		REV.
32K SPC ELECTRONICS			D	CS	G 657-Ø-1		C
SCALE	NONE	SHEET	11	OF	18		

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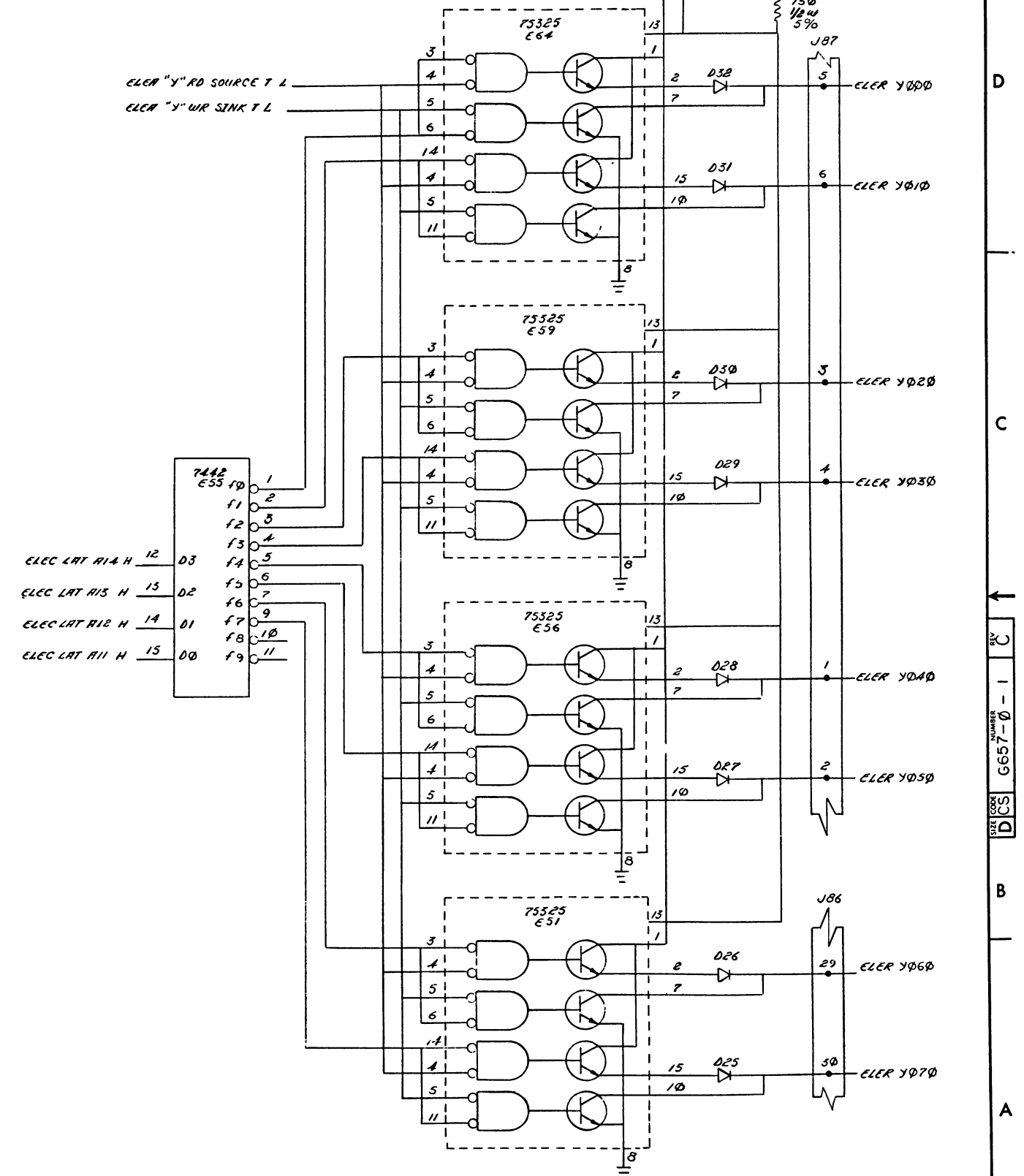
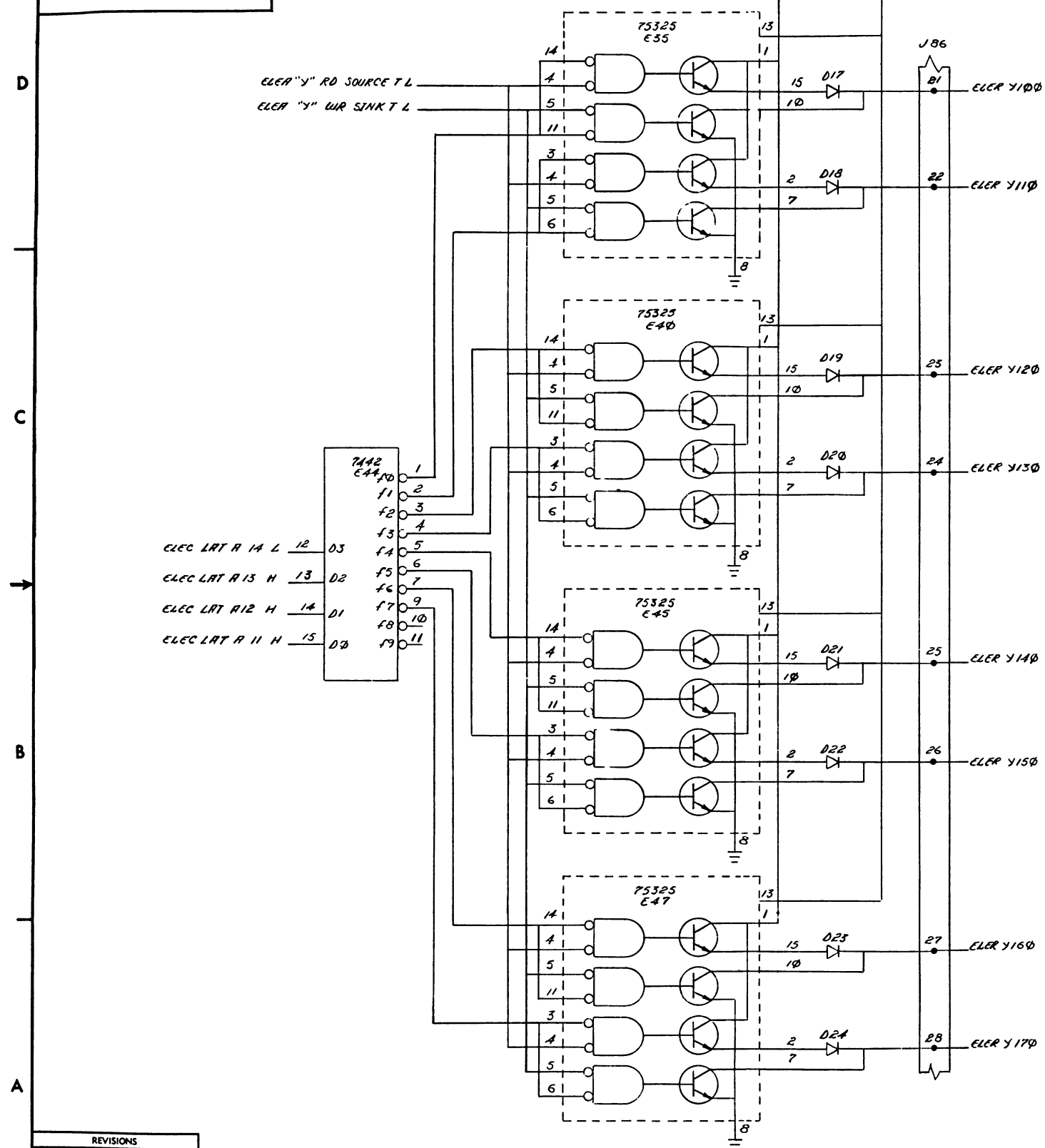
REVISIONS		
CHK	CHANGE NO	REV.



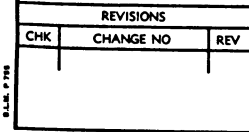


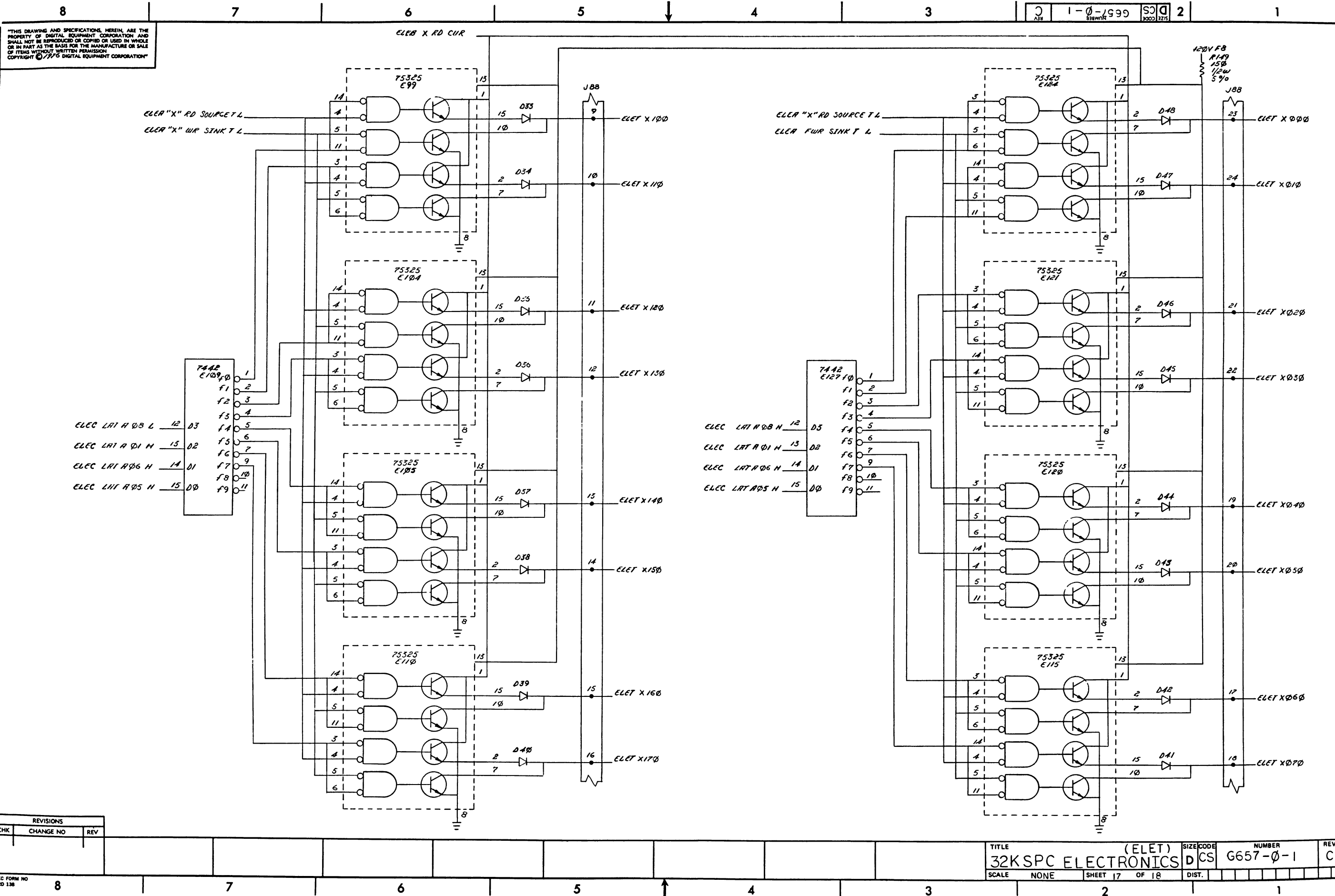
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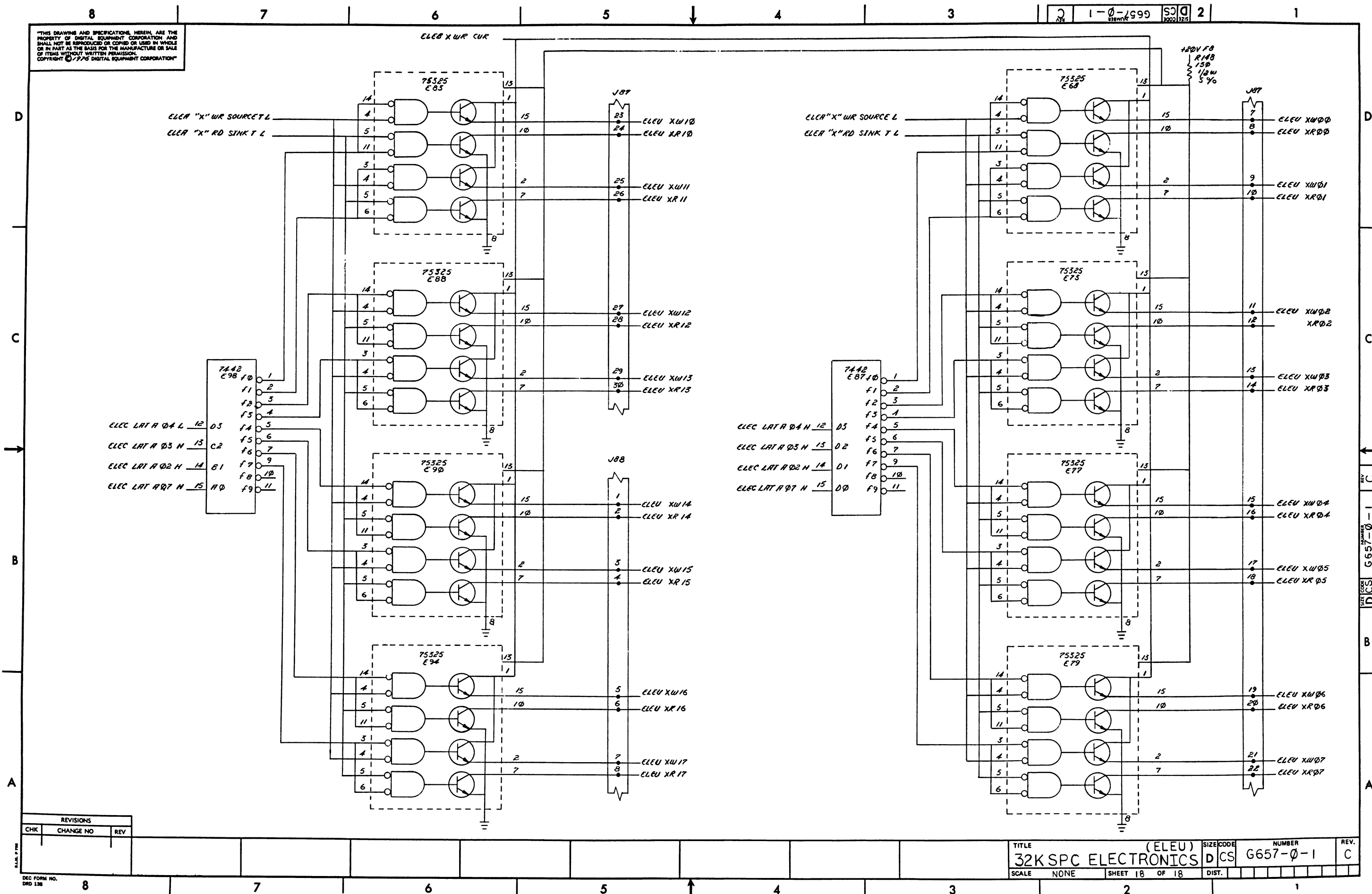


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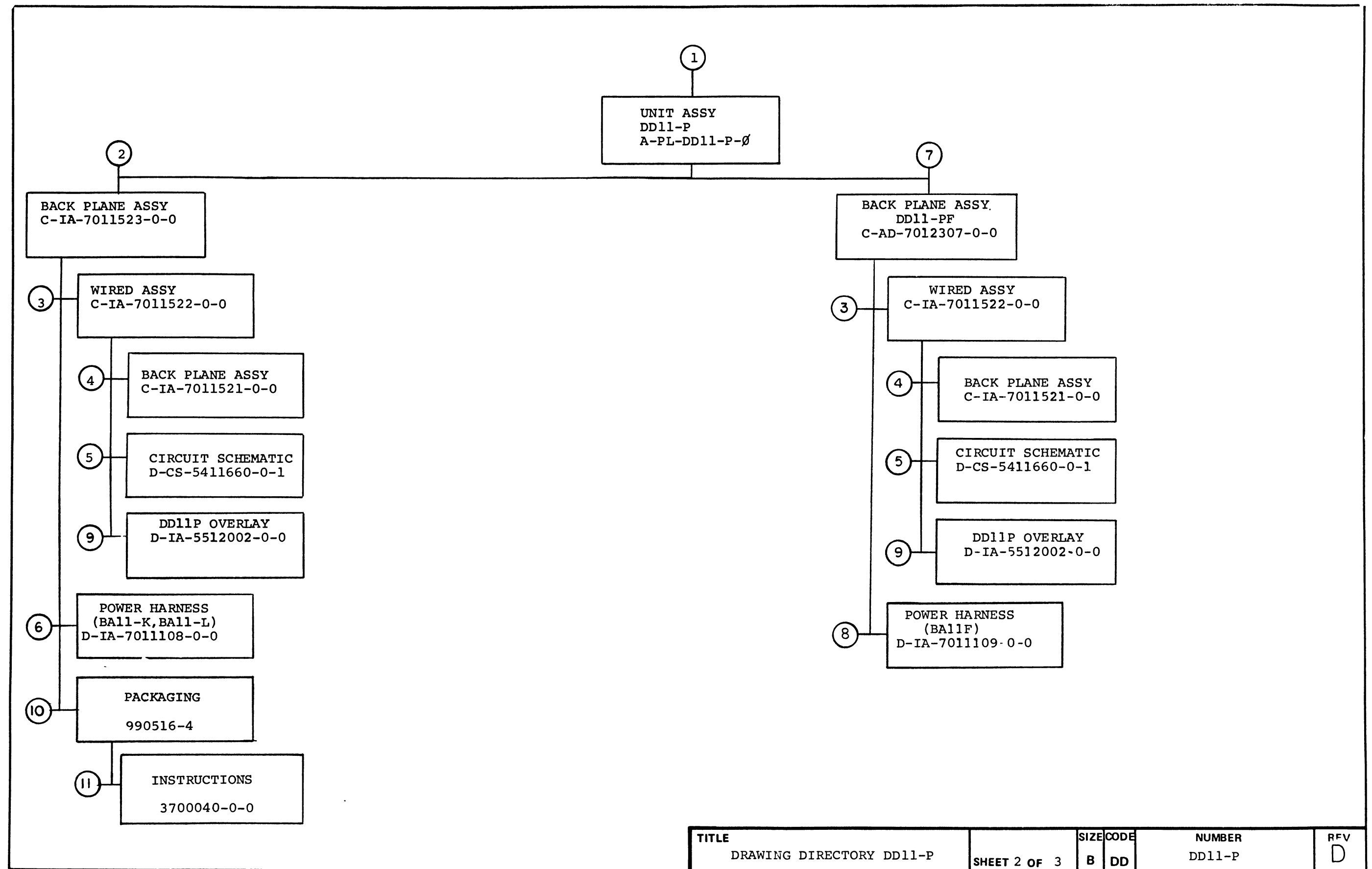
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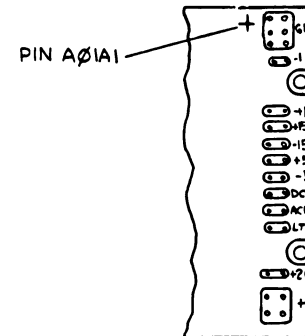
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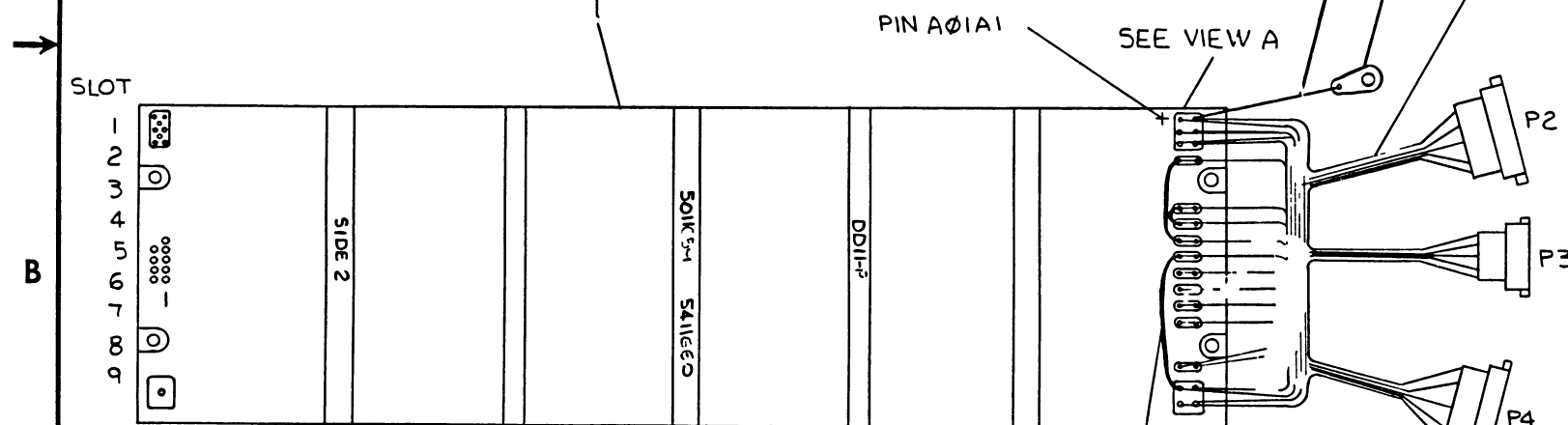
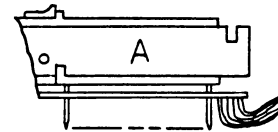


WIRE TABLE

FROM			TO	FROM			TO
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
BLUE	P4-13	SOLDER	-15V	BRN	P2-14	SOLDER	-5V
RED	P4-4	↑	+5V	BLK	P2-8	↑	GND
RED	P4-1		+5V	GRAY	P2-2		+15
BLK	P4-8		GND	ORG	P2-3		+20
ORG	P4-3		+20V	BLK	P2-9		GND
BLK	P4-9		GND	RED	P2-12	SOLDER	+5B
WHT	P4-6		+15B	ITEM 5	ITEM 6	SOLDER	GND
GRN	P4-15		-15B				
YEL	P3-4		ACLO				
BLK	P3-1		GND				
BRN	P3-2		LTC				
VIO	P3-3		DCLO				
RED	P2-4	↓	+5V				
RED	P2-1		SOLDER	+5V			



VIEW A



SEE NOTE 1

1. WHEN THE DD11-CK'S USED WITH A BAIL-K EXPANSION BOX WITHOUT BATTERY BACK UP, (I.E., NO 765 OR 765D) INSTALL THE THREE JUMPERS SHOWN:
A) -15 TO -15B
B) +15 TO +15B
C) +5 TO +5B (SEE NOTE 3)
USE #22 SHIELD BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
2. INSTALL ITEM #6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.
3. BAIL-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/34A, 11/34 WITH FP11-AU, AND SOME 11/04'S) AND HAVE MORE THAN ONE DD11-DK (OR AN ADDITIONAL DD11-CK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACK PANELS. IF TWO OF THE BACK PANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACK PANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACK PANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.

A/R	COPRESS-O-CARTON	9905016-4	8
REF.	PACKAGING INSTRUCTIONS	3700040-0-0	7
1	TERMINAL, SOLDER	9008150	6
2"	WIRE, BLK, STRD# 14	9107370-00	5
6"	TUBING # 22 (BLUE)	9107256-06	4
6"	WIRE BU ² # 22	9107560-01	3
1	POWER HARNESS (BAIL-K, BAIL-L)	D-1A-701108-0-0	2
1	WIRED ASSY DD11-P	C-1A-7011522-0-0	1

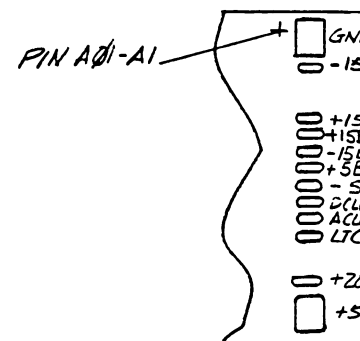
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WIRE TABLE

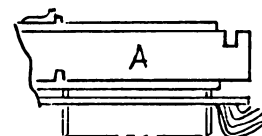
FROM				TO			
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
BLU	P4-13	SOLDER	-15V	BRN	P2-14	SOLDER	-5V
RED	P4-4		+5V	BLK	P2-8		GND
RED	P4-1		+5V	GRAY	P2-2		+5
BLK	P4-8		GND	ORN	P2-3		+20
ORN	P4-3		+20V	BLK	P2-9		GND
BLK	P4-9		GND	RED	P2-10	SOLDER	+5B
WHT	P4-6		+15B	ITEM#5	ITEM#6	SOLDER	GND
BRN	P4-15		-15B				
YEL	P3-4		ACLO				
BLK	P3-1		GND				
BRV	P3-2		LTC				
VIO	P3-3		DCLO				
RED	P2-4		+5V				
RED	P2-1	SOLDER	+5V				

NOTES:

1. WHEN DD11-PF IS USED WITH A BAI-F EXP BOX WITHOUT BATTERY BACK UP INSTALL THE THREE JUMPERS SHOWN:
1) -15 TO -15B
2) +15 TO +15B
3) +5 TO +5B
USE #20 INSULATED BUS WIRE ON SIDE 2 THIS WILL PROVIDE POWER TO THE MOS MEM VOLTAGE RAILS.
2. INSTALL ITEM #6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.



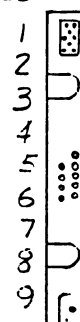
VIEW "A"



PIN A01-A1

SEE VIEW A

SLOT



3
4

SEE NOTE 1

1	TERMINAL, SOLDER	9008150	6
1	WIRE, BLK STRD #14	9107370-00	5
1/2	TUBING, #20 (CLEAN)	7107267-10	4
1/2	WIRE, BUS #20	9107560-02	3
1	POWER HARNESS BAI-F	D-7A-7011109-C-0	2
1	WIRED ASSY DD11-P	C-7A-7011522 D-0	1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DD11-PF					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE $\frac{\text{MILLIMETERS}}{\text{INCHES}}$		digital			
UNLESS OTHERWISE SPECIFIED		TITLE			
MILLIMETERS	INCHES	ANGLES	BACK PLANE ASSY (DD11-PF)		
X,XX = ±0.10	.XX = ±.005	±0° 30'	SIZE CODE NUMBER REV. C AD 7012307-0-0		
X,X = ±0.5	.XX = ±.02				
X = ±2	.X = ±.1				
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		NEXT HIGHER ASSY.		
	MATERIAL SEE PARTS LIST		A-PL-DD11-PF-0		
	FINISH		SCALE NONE		
			SHEET 1 OF 1		

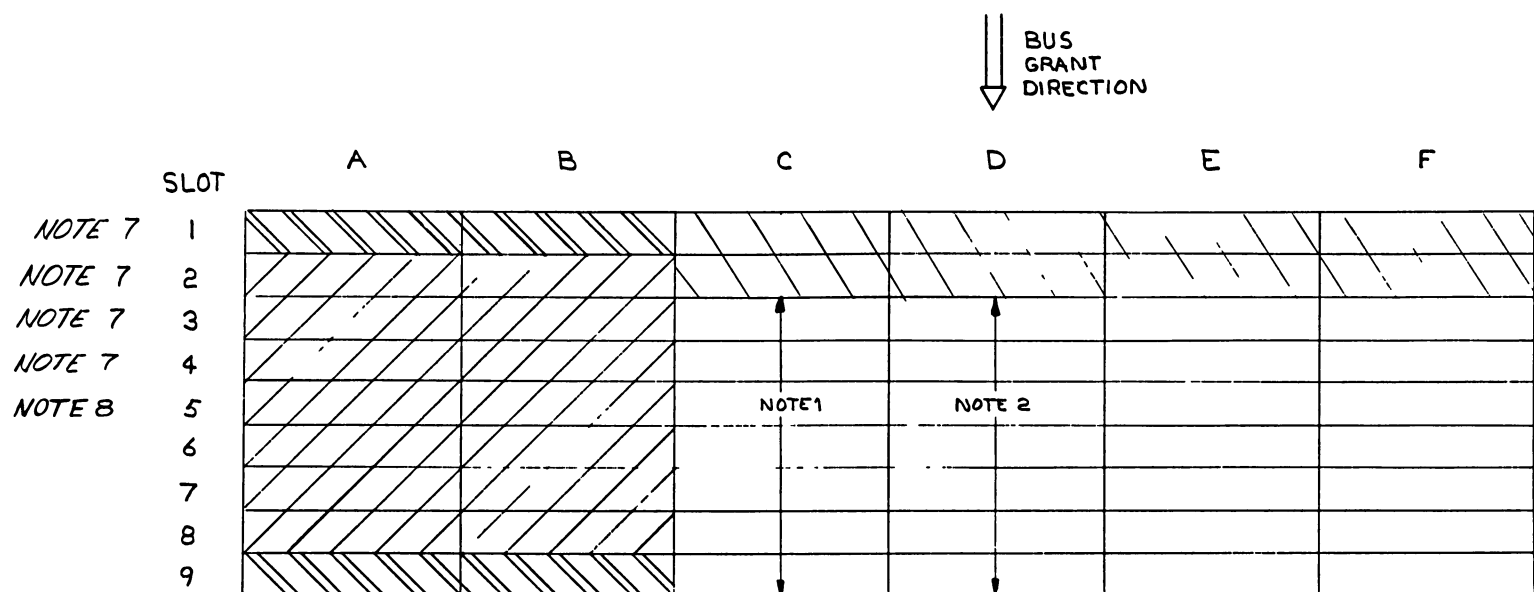
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DDII-P-2
REV D

NOTES:

1. REMOVE CA1 TO CB1 WIRE WRAP JUMPER TO INSTALL AN NPR OPTION IN ANY SPC SLOT.
2. G727 REQUIRED IN ANY UNUSED SPC SLOT TO PROVIDE BUS GRANT CONTINUITY.
3. GRANT DIRECTION IS SLOT 1 TO SLOT 9.
4. USE M92B2 TO INTERCONNECT SYSTEM UNITS INSTEAD OF M92B. M92B2 IS A 2 FT. UNIBUS JUMPER CABLE USED TO DISTRIBUTE UNIBUS LOADING.
5. M93B2 (SACK/TERM) AND M93B (TERM) MUST NEVER BE INSTALLED IN ANY SLOT OTHER THAN SLOT 9 (A & B). POWER SUPPLY VOLTAGES WILL BE SHORTED OUT IF THESE TERMINATORS ARE MOUNTED IN THE MODIFIED UNIBUS SLOTS.
6. MODIFIED UNIBUS SECTION CARRIES CORE AND MOS MEMORY VOLTAGE RAILS AND MEMORY PARITY CONTROL SIGNALS INSTEAD OF BUS GRANT AND SOME GND SIGNALS THAT ARE CONTAINED IN STANDARD UNIBUS SLOTS.
7. REFER TO NEXT PAGE FOR RECOMMENDED UTILIZATION OF THIS SLOT IN STANDARD SYSTEM.
8. THIS SLOT IS RESERVED FOR KKII-A OPTION ON PDP1134A ONLY BAIL-K BOX ONLY.
9. SLOT 3 IS TO BE USED FOR EITHER KKII-A OR FPII-A OPTIONS. IF BOTH OPTIONS ARE PRESENT FPII-A MUST GO IN SLOT 3 AND KKII-A IN SLOT 5 THESE CONFIGURATIONS APPLY TO BOTH THE BAIL-L (5'4") AND BAIL-K (10.5") BOXES.
10. EITHER M9312 OR M9301 MAY BE USED BUT NOT BOTH.



A B

STANDARD UNIBUS (SLOTS 1 & 9)

DUAL MODULES WHICH PLUG INTO STANDARD UNIBUS SLOTS ONLY:

BCIIA UNIBUS CABLE

M9302 SACK/TERM (NOTES)

M920 (NOTE 4)

M930 (NOTE 5)

M9202 (NOTE 4)

SLOT 9 (A & B) EITHER THE TERMINATION OF THE UNIBUS OR THE OUTPUT CABLE (BCIIA)

A B

MODIFIED UNIBUS (SLOTS 2-8)

DUAL MODULES WHICH PLUG INTO THE MODIFIED UNIBUS ONLY:

M9312 BOOT/TERM.

M9306 TERM.

M7850 PARITY CONT.

C D E F

SMALL PERIPHERAL CONTROLLER (SLOTS 3-9)

ANY S.P.C. OPTION

C D E F

CPU BUS (SLOTS 1 & 2)

PROCESSOR INTERCONNESS FOR KDII & AND KDII-EH

A B C D E F

HEX MODULE WITH MODIFIED UNIBUS SIGNALS (SLOTS 2-8)

HEX MODULES THAT PLUG INTO MODIFIED UNIBUS ONLY:

M7847 MOS MEMORY (MS11 EP-JP)

MM11-BP, CP, DP, OR YP CORE MEMORY

GENERAL

ANY HEX MODULE THAT MEETS EITHER OF THE FOLLOWING REQUIREMENTS CAN BE MOUNTED IN THESE SLOTS.

- 1.) THOSE PINNED TO TAKE SIGNALS FROM MODIFIED UNIBUS (A & B) WITH THE BUS GRANTS TAKEN FROM SPC SLOTS 1 & 9 ABOVE
- 2.) THOSE PINNED TO TAKE SIGNALS FROM STANDARD SPC PINNING WITH THE EXCEPTION OF POWER FROM (A & B). 1 & 2: SPECIAL OPTIONS

A B C D E F

HEX MODULE WITH STANDARD UNIBUS SIGNALS

SLOT 1 ONLY

M7263 PDP11/04 CPU MODULE OR M7266 PDP 11/34 CONTROL MODULE

M7266 KDII-E (PDP 11/34) CONTROL MODULE

M8266 KDII-AE (PDP 11/34A) CONTROL MODULE

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL

FINISH

DESCRIPTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES

CLASS OF ACCURACY

SURFACE

QUALITY IN

MICROMETRES

NOMINAL DIMENSION RANGE INCHES

OVER 0 TO 1.25

OVER 1.25 TO 4.0

OVER 4.0 TO 12.0

OVER 12.0 TO 40.0

OVER 40.0 TO 80.0

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RECOMMENDED SLOT UTILIZATION IN STANDARD SYSTEMS

KD11-D W/M9312 & MS11-JP(FP)		PDP-11/04
SLOT 1	M7263	
2	MS11-JP (FP)	
3	M9312	
4		
5		
6		
7		
8		
SLOT 9		

KD11-E W/M9312		PDP-11/34
SLOT 1	M7266	
2	M7265	
3	M9312	
4		
5		
6		
7		
8		
SLOT 9		

KD11-D W/M9312 & MM11-DP/OR MM11-YP		PDP-11/04
SLOT 1	M7263	
2	MM11-DP	
3		
4	M9312	
5		
6		
7		
8		
SLOT 9		

KD11-EA W/M9312 FP11-A		PDP-1134A
SLOT 1	M8266	
2	M8265	
3	M8267	
4	M9312	
5		
6		
7		
8		
SLOT 9		

KD11-D W/M9312 & MM11-CP		PDP-11/04
SLOT 1	M7263	
2	MM11-CP	
3	M9312	
4		
5		
6		
7		
8		
SLOT 9		

B11-K 10.5 " BOX/B11-L 5.25"BOX W/M9312 FP11-A KK11-A		PDP1134 A
SLOT 1	KD11-EA	
2	M8266	
3	M8265	
4	M8267	
5	M9312	
6	M8268	
7		
8		
SLOT 9		

KD11-EA W/M9312		PDP-1134A
SLOT 1	M8266	
2	M8265	
3	M9312	
4		
5		
6		
7		
8		
SLOT 9		

B11-K 10.5 BOX/B11-L 5.25'BOX KD11-EA W/M9312 KK11-A OR FP11-A		PDP1134 A
SLOT 1	KD11-EA	
2	M8266	
3	M8265	
4	M8267 OR M8268	
5	M9312	
6		
7		
8		
SLOT 9		

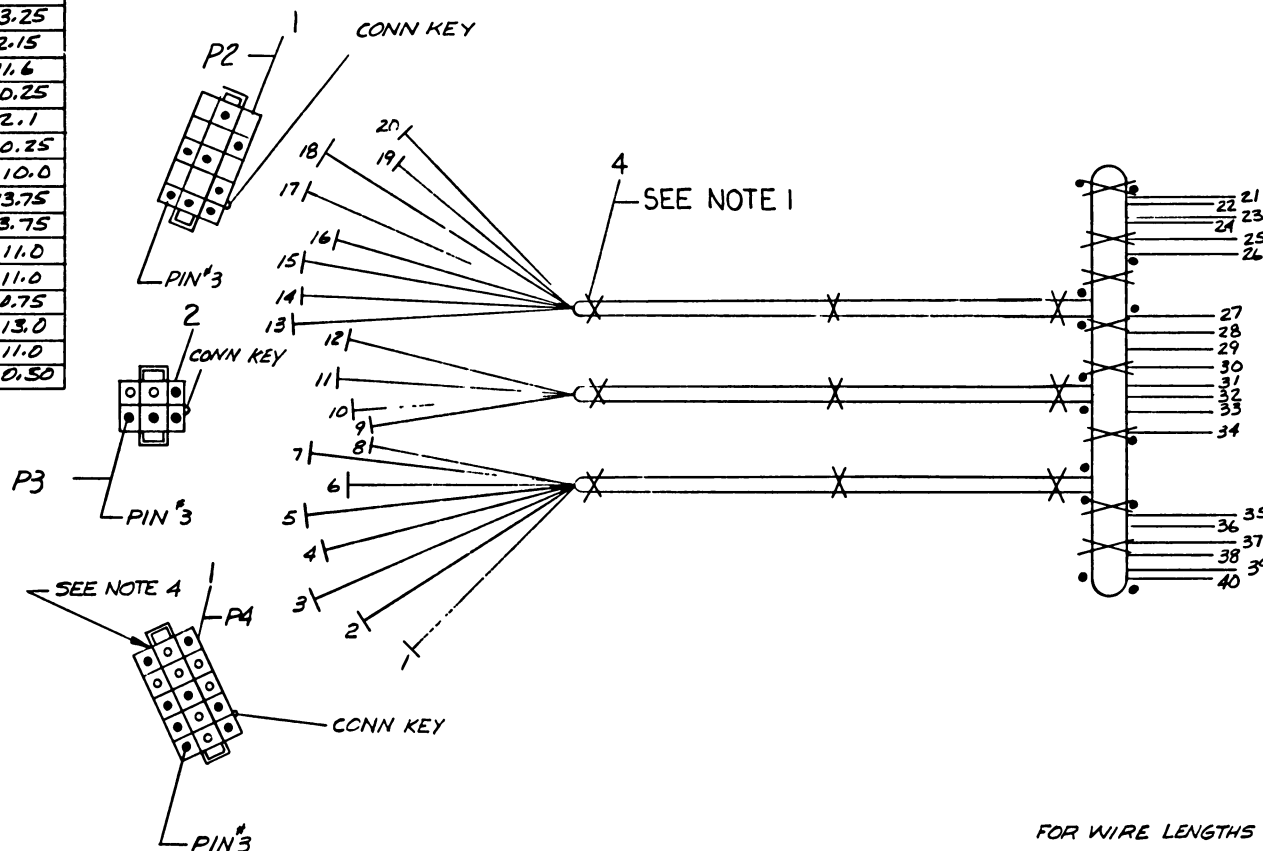
REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
MODULE UTILIZATION (DD11-P)	DMU	DD11-P-2	D
SCALE	SHEET 2 OF 2	DIST.	

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WIRING TABLE

ITEM NO	DESCRIPTION		FROM			TO		SIGNAL	LENGTH
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION		
9	18	BLU	1	P4-13	3	26	SOLDER	-15V	12.75
5	14	RED	2	P4-4		37		+5V	11
5	14	RED	3	P4-1		38		+5V	11.25
6	14	BLK	4	P4-8		21		GND	13.75
7	14	ORN	5	P4-3		35		+20V	11.0
6	14	BLK	6	P4-9		22		GND	13.25
13	18	WHT	7	P4-6		28		+15B	12.15
14	18	GRN	8	P4-15		29		-15B	11.6
12	18	YEL	9	P3-4		33		ACLO	10.25
6	14	BLK	10	P3-1		23		GND	12.1
10	18	BRN	11	P3-2		34		LTC	10.25
11	18	VIO	12	P3-3		32		DCLO	10.0
5	14	RED	13	P2-4		39		+5V	13.75
5	14	RED	14	P2-1		40		+5V	13.75
15	14	BRN	15	P2-14		31		-5V	11.0
6	14	BLK	16	P2-8		24		GND	11.0
8	18	GRY	17	P2-2		27		+15	10.75
7	14	ORN	18	P2-3		36		+20	13.0
6	14	BLK	19	P2-9		25		GND	11.0
5	14	RED	20	P2-10	3	30	SOLDER	+5B	10.50



NOTES:

1. USE TIE WRAPS (X) ITEM #4 AT BREAKOUT POINTS SHOWN.
2. DOT (•) INDICATES NAIL LOCATION FOR ASSY USE ONLY. COVER NAILS WITH SHRINK TUBING.
3. WIRE LENGTH TOL WILL BE $\pm .12$ IN
4. ALL CONN SHOWN FROM WIRING SIDE.
5. STRIP $\frac{1}{8}$ " INSULATION FROM POINTS 21 THRU 40 AND FULL TIN POINTS 21 THRU 40.

1	POWER HARNESS DECAL	7409872-2	16
AIR	WIRE #14 AWG (BRN)	9107370-11	15
AIR	WIRE #18 AWG (GRN)	9107360-55	14
AIR	WIRE #18 AWG (WHT)	9107360-99	13
AIR	WIRE #18 AWG (YEL)	9107360-44	12
AIR	WIRE #18 AWG (VIO)	9107360-77	11
AIR	WIRE #18 AWG (BRN)	9107360-11	10
AIR	WIRE #18 AWG (BLU)	9107360-66	9
AIR	WIRE #18 AWG (GRY)	9107360-88	8
AIR	WIRE #14 AWG (ORN)	9107370-33	7
AIR	WIRE #14 AWG (BLK)	9107370-00	6
AIR	WIRE #14 AWG (RED)	9107370-22	5
17	TIE WRAP	9007031	4
20	PIN MALE	1209378-01	3
1	CONN 6 PIN HOUSING	1209351-06	2
2	CONN 15 PIN HOUSING	1209351-15	1

FOR WIRE LENGTHS
SEE WIRING TABLE

DO NOT REDUCE

SCALE
6 IN

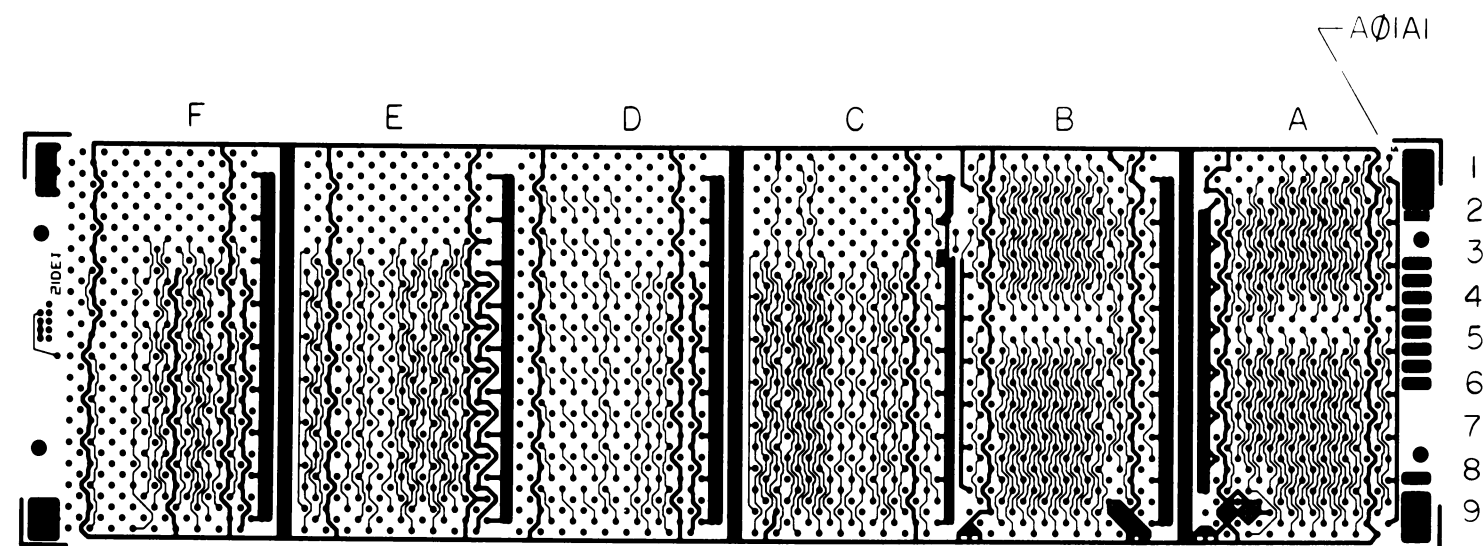
FOR MANUFACTURING PURPOSES ONLY

THIRD ANGLE PROJECTION	QUANTITY & VARIATION	DRN: [Signature] 11/3/75	FIRST USED ON DDII-DF, PF
REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG	CHK'D: [Signature] 12/1/75	ENG: [Signature] 12/1/75
MATERIAL SEE PARTS LIST	FINISH	PROJ ENG: [Signature] 12/1/75	PROD: [Signature] 12/1/75
NEXT HIGHER ASSY.		TITLE POWER HARNESS (BAII-F)	
SCALE 1/1		SIZE CODE D	
SHEET 1 OF 1		NUMBER DIST. 7011109-0-0	

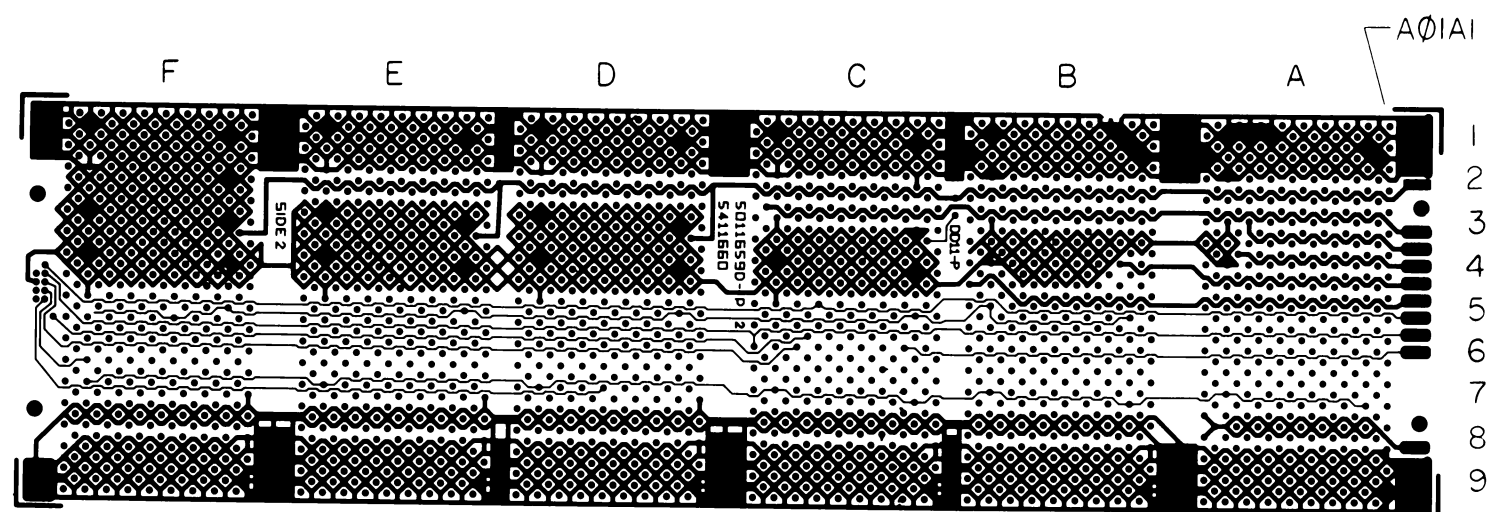
REV.	CHANGE NO.	DATE	BY	APP.
1	1	11/3/75	D. BARRY	
2	2	12/1/75	P. PORRECA	

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NOTES:



SIDE 1



SIDE 2

A

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

REF		AWT REV STATUS	A-WT-7011522-0	5
REF		MODULE ECO HISTORY	B-MH-5411660-0-6	4
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411660-0-5	3
REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411660-0-4	2
I		ETCHED CIRCUIT BOARD	5011659	1
QTY	REF. DESIGNATION	DESCRIPTION	PART NO	ITEM NO

FIRST USED ON OPTION MODEL		REF. DESIGNATION		DESCRIPTION		PART NO.		REV.	
		ETCH BOARD REV		D		PARTS LIST			
				DRN.	DATE				
				B 3lodgett	6-20-75				
				CHK'D.	DATE				
				F H.S.	7/1/75				
				ENG.	DATE				
				R Barry	2-2-75	TITLE CIRCUIT SCHEMATIC			
				PROJ. ENGR.	DATE				
				R Barry	2-2-75				
				PROD	DATE				
				NEXT HIGHER ASSY					
				C 1A-7011521-0-0		SIZE CODE		NUMBER	
DEC NO.	EIA NO	DEC NO	EIA NO	C 1A-7011521-0-0		D CS		7411660-0-1	
SEMICONDUCTOR CONVERSION CHART				SHEET 1 / 1		REV		1	
				SCALE		DIST.			
				SHEET		OF		1	

[illegible]

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DIGITAL EQUIP. CORP.

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DDII-P			PARTS LIST		
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRE LIST DDII-P			
CHK'D	DATE				
ENG.	DATE				
PROJ. ENG.	DATE				
PROD.	DATE				
NEXT HIGHER ASSEMBLY					
B-DD-DDII-P		SIZE	CODE	NUMBER	REV.
SCALE		K	WL	DDII-P-1	C
SHEET		OF		DIST.	

REVISIONS		REV.
CHANGE NO.	CHK	
DDIIP-00001	RTB	A
DDIIP-00003	RTB	B
DDIIP-00004	RTB	C

**RUN
NUMBER**

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0-2/8
0-4/8
0-2/8
0-2/8
0-4/8

6-6/8

DD11P.C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDEP

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9117 PAGE 3
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

-15V	C03B2	1-01 *	P		2		0-7/8	4
-15V	C04B2	1-02 *	P		1		0-7/8	4
-15V	C05B2	1-03 *	P		2		0-7/8	4
-15V	C06B2	1-04 *	P		1		0-7/8	4
-15V	C07B2	1-05 *	P		2		0-7/8	4
-15V	C08B2	1-06 *	P		1		0-7/8	4
-15V	C09B2	1-07 *	P		2		3-1/8	4
-15V	D09B2	1-08 *	P		1		0-7/8	4
-15V	D08B2	1-09 *	P		2		0-7/8	4
-15V	D07B2	1-10 *	P		1		0-7/8	4
-15V	D06B2	1-11 *	P		2		0-7/8	4
-15V	D05B2	1-12 *	P		1		0-7/8	4
-15V	D04B2	1-13 *	P		2		0-7/8	4
-15V	D03B2	1-14 *	P		1		2-7/8	4
-15V	E03B2	1-15 *	P		2		0-7/8	4
-15V	E04B2	1-16 *	P		1		0-7/8	4
-15V	E05B2	1-17 *	P		2		0-7/8	4
-15V	E06B2	1-18 *	P		1		0-7/8	4
-15V	E07B2	1-19 *	P		2		0-7/8	4
-15V	E08B2	1-20 *	P		1		0-7/8	4
-15V	E09B2	1-21 *	P		2		3-1/8	4
-15V	F09B2	1-22 *	P		1		0-7/8	4
-15V	F08B2	1-23 *	P		2		0-7/8	4
-15V	F07B2	1-24 *	P		1		0-7/8	4
-15V	F06B2	1-25 *	P		2		0-7/8	4
-15V	F05B2	1-26 *	P		1		0-7/8	4
-15V	F04B2	1-27 *	P		2		0-7/8	4
-15V	F03B2	1-28 *	P					4
-15V		1					30-1/8	4
-5V	B02V2	1-01 *	P		2		0-7/8	5
-5V	B03V2	1-02 *	P		1		0-7/8	5
-5V	B04V2	1-03 *	P		2		0-7/8	5
-5V	B05V2	1-04 *	P		1		0-7/8	5
-5V	B06V2	1-05 *	P		2		0-7/8	5
-5V	B07V2	1-06 *	P		1		0-7/8	5
-5V	B08V2	1-07 *	P					5
-5V		1					5-2/8	5
AC LO L	B01F1	1-01 *	P		1		0-7/8	6
AC LO L	B02F1	1-02 *	P		2		0-7/8	6
AC LO L	B03F1	1-03 *	P		1		0-7/8	6
AC LO L	B04F1	1-04 *			2		4-7/8	6
AC LO L	C03V1	1-05 *	P		1		0-7/8	6
AC LO L	C04V1	1-06 *	P		2		0-7/8	6
AC LO L	C05V1	1-07 *	P		1		0-7/8	6
AC LO L	C06V1	1-08 *	P		2		0-7/8	6
AC LO L	C07V1	1-09 *	P		1		0-7/8	6
AC LO L	C08V1	1-10 *	P		2		0-7/8	6
AC LO L	C09V1	1-11 *			1		6-3/8	6
AC LO L	B05F1	1-12 *	P		2		0-7/8	6
AC LO L	B06F1	1-13 *	P		1		0-7/8	6
AC LO L	B07F1	1-14 *	P		2		0-7/8	6
AC LO L	B08F1	1-15 *	P		1		0-7/8	6
AC LO L	B09F1	1-16 *	P					6
AC LO L		1					22-5/8	6

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9117 PAGE 4
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BB+15	A02R1	1-01 *	P		2		0-7/8	7
BB+15	A03R1	1-02 *	P		1		0-7/8	7
BB+15	A04R1	1-03 *	P		2		0-7/8	7
BB+15	A05R1	1-04 *	P		1		0-7/8	7
BB+15	A06R1	1-05 *	P		2		0-7/8	7
BB+15	A07R1	1-06 *	P		1		0-7/8	7
BB+15	A08R1	1-07 *	P					7
BB+15		1					5-2/8	7
BB+5	B02D1	1-01 *	P		2		0-7/8	8
BB+5	B03D1	1-02 *	P		1		0-7/8	8
BB+5	B04D1	1-03 *	P		2		0-7/8	8
BB+5	B05D1	1-04 *	P		1		0-7/8	8
BB+5	B06D1	1-05 *	P		2		0-7/8	8
BB+5	B07D1	1-06 *	P		1		0-7/8	8
BB+5	B08D1	1-07 *	P					8
BB+5		1					5-2/8	8
BB-15	A02S1	1-01 *	P		2		0-7/8	9
BB-15	A03S1	1-02 *	P		1		0-7/8	9
BB-15	A04S1	1-03 *	P		2		0-7/8	9
BB-15	A05S1	1-04 *	P		1		0-7/8	9
BB-15	A06S1	1-05 *	P		2		0-7/8	9
BB-15	A07S1	1-06 *	P		1		0-7/8	9
BB-15	A08S1	1-07 *	P					9
BB-15		1					5-2/8	9
BB5Y L	A01P2	1-01 *	P		2		0-7/8	10
BB5Y L	A02P2	1-02 *	P		1		0-7/8	10
BB5Y L	A03P2	1-03 *	P		2		0-7/8	10
BB5Y L	A04P2	1-04 *	H		1	TWP	13-1/8	10
BB5Y L	F03D1	1-05 *	P		2		0-7/8	10
BB5Y L	F04D1	1-06 *	H		1	2' TWP	0-7/8	10
BB5Y L	F05D1	1-07 *	P		2		0-7/8	10
BB5Y L	F06D1	1-08 *	P		1		0-7/8	10
BB5Y L	F07D1	1-09 *	P		2		0-7/8	10
BB5Y L	F08D1	1-10 *	P		1		0-7/8	10
BB5Y L	F09D1	1-11 *	H		2	TWP	14-3/8	10
BB5Y L	A05P2	1-12 *	P		1		0-7/8	10
BB5Y L	A06P2	1-13 *	P		2		0-7/8	10
BB5Y L	A07P2	1-14 *	P		1		0-7/8	10
BB5Y L	A08P2	1-15 *			2		0-7/8	10
BB5Y L	A09P2	1-16 *						10
BB5Y L		1					38-7/8	10
BG4 A	B01E2	1-01 *	H		1	TWP	6-7/8	11
BG4 A	D01S2	1-02 *						11
BG4 A		1					6-7/8	11
BG4 B	D01T2	1-01 *	P		1		0-5/8	12
BG4 B	D02S2	1-02 *	P					12
BG4 B		1					0-5/8	12

RUN
 NUMBER

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14

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16

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25

26

RUN
 NUMBER

BG5 H	D06R2	1-01 *	P	1		0-5/8	27
BG5 H	D07P2	1-02 *	P				27
BG5 H		1				0-5/8	27
BG5 J	D07R2	1-01 *	P	1		0-5/8	28
BG5 J	D08P2	1-02 *	P				28
BG5 J		1				0-5/8	28
BG5 K	D08R2	1-01 *	P	1		0-5/8	29
BG5 K	D09P2	1-02 *	P				29
BG5 K		1				0-5/8	29
BG5 L	B09B1	1-01 *	H	1	TWP	7-3/8	30
BG5 L	D09R2	1-02 *	X				30
BG5 L		1				7-3/8	30
BG6 A	B01A1	1-01 *	H	1	TWP	7-1/8	31
BG6 A	D01M2	1-02 *	X				31
BG6 A		1				7-1/8	31
BG6 B	D01N2	1-01 *	P	1		0-5/8	32
BG6 B	D02M2	1-02 *	P				32
BG6 B		1				0-5/8	32
BG6 C	D02N2	1-01 *	P	1		0-5/8	33
BG6 C	D03M2	1-02 *	P				33
BG6 C		1				0-5/8	33
BG6 D	D03N2	1-01 *	P	1		0-5/8	34
BG6 D	D04M2	1-02 *	P				34
BG6 D		1				0-5/8	34
BG6 E	D04N2	1-01 *	P	1		0-5/8	35
BG6 E	D05M2	1-02 *	P				35
BG6 E		1				0-5/8	35
BG6 F	D05N2	1-01 *	P	1		0-5/8	36
BG6 F	D06M2	1-02 *	P				36
BG6 F		1				0-5/8	36
BG6 H	D06N2	1-01 *	P	1		0-5/8	37
BG6 H	D07M2	1-02 *	P				37
BG6 H		1				0-5/8	37
BG6 J	D07N2	1-01 *	P	1		0-5/8	38
BG6 J	D08M2	1-02 *	P				38
BG6 J		1				0-5/8	38
BG6 K	D08N2	1-01 *	P	1		0-5/8	39
BG6 K	D09M2	1-02 *	P				39
BG6 K		1				0-5/8	39
BG6 L	B09A1	1-01 *	H	1	TWP	7-3/8	40
BG6 L	D09N2	1-02 *	X				40
BG6 L		1				7-3/8	40

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BG7 A	A01V1	1-01 *	H			1	TWP	7-3/8	41
BG7 A	D01K2	1-02 *	X						41
BG7 A		1						7-3/8	41
BG7 B	D01L2	1-01 *	P			1		0-5/8	42
BG7 B	D02K2	1-02 *	P						42
BG7 B		1						0-5/8	42
BG7 C	D02L2	1-01 *	P			1		0-5/8	43
BG7 C	D03K2	1-02 *	P						43
BG7 C		1						0-5/8	43
BG7 D	D03L2	1-01 *	P			1		0-5/8	44
BG7 D	D04K2	1-02 *	P						44
BG7 D		1						0-5/8	44
BG7 E	D04L2	1-01 *	P			1		0-5/8	45
BG7 E	D05K2	1-02 *	P						45
BG7 E		1						0-5/8	45
BG7 F	D05L2	1-01 *	P			1		0-5/8	46
BG7 F	D06K2	1-02 *	P						46
BG7 F		1						0-5/8	46
BG7 H	D06L2	1-01 *	P			1		0-5/8	47
BG7 H	D07K2	1-02 *	X						47
BG7 H		1						0-5/8	47
BG7 J	D07L2	1-01 *	P			1		0-5/8	48
BG7 J	D08K2	1-02 *	P						48
BG7 J		1						0-5/8	48
BG7 K	D08L2	1-01 *	P			1		0-5/8	49
BG7 K	D09K2	1-02 *	P						49
BG7 K		1						0-5/8	49
BG7 L	A09V1	1-01 *	H			1	TWP	7-5/8	50
BG7 L	D09L2	1-02 *	X						50
BG7 L		1						7-5/8	50

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BR4 L	B01D2	1-01 *		2	0-7/8	51
BR4 L	B02D2	1-02 *		1	0-7/8	51
BR4 L	B03D2	1-03 *		2	0-7/8	51
BR4 L	B04D2	1-04 *		1	6-5/8	51
BR4 L	D03H2	1-05 *	P	2	0-7/8	51
BR4 L	D04H2	1-06 *	P	1	0-7/8	51
BR4 L	D05H2	1-07 *	P	2	0-7/8	51
BR4 L	D06H2	1-08 *	P	1	0-7/8	51
BR4 L	D07H2	1-09 *	P	2	0-7/8	51
BR4 L	D08H2	1-10 *	P	1	0-7/8	51
BR4 L	D09H2	1-11 *		2	7-7/8	51
BR4 L	B05D2	1-12 *		1	0-7/8	51
BR4 L	B06D2	1-13 *		2	0-7/8	51
BR4 L	B07D2	1-14 *		1	0-7/8	51
BR4 L	B08D2	1-15 *		2	0-7/8	51
BR4 L	B09D2	1-16 *				51
BR4 L		1			25-7/8	51
BR5 L	B01C1	1-01 *	P	1	0-7/8	52
BR5 L	B02C1	1-02 *	P	2	0-7/8	52
BR5 L	B03C1	1-03 *	P	1	0-7/8	52
BR5 L	B04C1	1-04 *		2	6-1/8	52
BR5 L	D03F2	1-05 *	P	1	0-7/8	52
BR5 L	D04F2	1-06 *	P	2	0-7/8	52
BR5 L	D05F2	1-07 *	P	1	0-7/8	52
BR5 L	D06F2	1-08 *	P	2	0-7/8	52
BR5 L	D07F2	1-09 *	P	1	0-7/8	52
BR5 L	D08F2	1-10 *	P	2	0-7/8	52
BR5 L	D09F2	1-11 *		1	8-3/8	52
BR5 L	B05C1	1-12 *	P	2	0-7/8	52
BR5 L	B06C1	1-13 *	P	1	0-7/8	52
BR5 L	B07C1	1-14 *	P	2	0-7/8	52
BR5 L	B08C1	1-15 *	P	1	0-7/8	52
BR5 L	B09C1	1-16 *	P			52
BR5 L		1			25-7/8	52
BR6 L	A01U2	1-01 *		2	0-7/8	53
BR6 L	A02U2	1-02 *		1	0-7/8	53
BR6 L	A03U2	1-03 *		2	0-7/8	53
BR6 L	A04U2	1-04 *		1	7-3/8	53
BR6 L	D03E2	1-05 *	P	2	0-7/8	53
BR6 L	D04E2	1-06 *	P	1	0-7/8	53
BR6 L	D05E2	1-07 *	P	2	0-7/8	53
BR6 L	D06E2	1-08 *	P	1	0-7/8	53
BR6 L	D07E2	1-09 *	P	2	0-7/8	53
BR6 L	D08E2	1-10 *	P	1	0-7/8	53
BR6 L	D09E2	1-11 *		2	8-7/8	53
BR6 L	A05U2	1-12 *		1	0-7/8	53
BR6 L	A06U2	1-13 *		2	0-7/8	53
BR6 L	A07U2	1-14 *		1	0-7/8	53
BR6 L	A08U2	1-15 *		2	0-7/8	53
BR6 L	A09U2	1-16 *				53
BR6 L		1			27-5/8	53

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BR7 L	A01T2	1-01 *	P		2		0-7/8	54
BR7 L	A02T2	1-02 *	P		1		0-7/8	54
BR7 L	A03T2	1-03 *	P		2		0-7/8	54
BR7 L	A04T2	1-04 *			1		7-3/8	54
BR7 L	D03D2	1-05 *	P		2		0-7/8	54
BR7 L	D04D2	1-06 *	P		1		0-7/8	54
BR7 L	D05D2	1-07 *	P		2		0-7/8	54
BR7 L	D06D2	1-08 *	P		1		0-7/8	54
BR7 L	D07D2	1-09 *	P		2		0-7/8	54
BR7 L	D08D2	1-10 *	P		1		0-7/8	54
BR7 L	D09D2	1-11 *			2		0-7/8	54
BR7 L	A05T2	1-12 *	P		1		0-7/8	54
BR7 L	A06T2	1-13 *	P		2		0-7/8	54
BR7 L	A07T2	1-14 *	P		1		0-7/8	54
BR7 L	A08T2	1-15 *			2		0-7/8	54
BR7 L	A09T2	1-16 *						54
BR7 L		1					27-5/8	54
BUS A00 L	B01H2	1-01 *	P		2		0-7/8	55
BUS A00 L	B02H2	1-02 *	P		1		0-7/8	55
BUS A00 L	B03H2	1-03 *	P		2		0-7/8	55
BUS A00 L	B04H2	1-04 *			1		0-5/8	55
BUS A00 L	E03H2	1-05 *			2		0-7/8	55
BUS A00 L	E04H2	1-06 *			1		0-7/8	55
BUS A00 L	E05H2	1-07 *			2		0-7/8	55
BUS A00 L	E06H2	1-08 *			1		0-7/8	55
BUS A00 L	E07H2	1-09 *			2		0-7/8	55
BUS A00 L	E08H2	1-10 *			1		0-7/8	55
BUS A00 L	E09H2	1-11 *			2		10-1/8	55
BUS A00 L	B05H2	1-12 *	P		1		0-7/8	55
BUS A00 L	B06H2	1-13 *	P		2		0-7/8	55
BUS A00 L	B07H2	1-14 *	P		1		0-7/8	55
BUS A00 L	B08H2	1-15 *	P		2		0-7/8	55
BUS A00 L	B09H2	1-16 *	P					55
BUS A00 L		1					30-1/8	55
BUS A01 L	B01H1	1-01 *	P		2		0-7/8	56
BUS A01 L	B02H1	1-02 *	P		1		0-7/8	56
BUS A01 L	B03H1	1-03 *	P		2		0-7/8	56
BUS A01 L	B04H1	1-04 *			1		0-5/8	56
BUS A01 L	E03H1	1-05 *	P		2		0-7/8	56
BUS A01 L	E04H1	1-06 *	P		1		0-7/8	56
BUS A01 L	E05H1	1-07 *	P		2		0-7/8	56
BUS A01 L	E06H1	1-08 *	P		1		0-7/8	56
BUS A01 L	E07H1	1-09 *	P		2		0-7/8	56
BUS A01 L	E08H1	1-10 *	P		1		0-7/8	56
BUS A01 L	E09H1	1-11 *			2		10-1/8	56
BUS A01 L	B05H1	1-12 *	P		1		0-7/8	56
BUS A01 L	B06H1	1-13 *	P		2		0-7/8	56
BUS A01 L	B07H1	1-14 *	P		1		0-7/8	56
BUS A01 L	B08H1	1-15 *	P		2		0-7/8	56
BUS A01 L	B09H1	1-16 *	P					56
BUS A01 L		1					30-1/8	56

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BUS A02 L	B01J2	1-01 *	P		2		0-7/8	57
BUS A02 L	B02J2	1-02 *	P		1		0-7/8	57
BUS A02 L	B03J2	1-03 *	P		2		0-7/8	57
BUS A02 L	B04J2	1-04 *			1		8-5/8	57
BUS A02 L	E03F1	1-05 *	P		2		0-7/8	57
BUS A02 L	E04F1	1-06 *	P		1		0-7/8	57
BUS A02 L	E05F1	1-07 *	P		2		0-7/8	57
BUS A02 L	E06F1	1-08 *	P		1		0-7/8	57
BUS A02 L	E07F1	1-09 *	P		2		0-7/8	57
BUS A02 L	E08F1	1-10 *	P		1		0-7/8	57
BUS A02 L	E09F1	1-11 *			2		9-5/8	57
BUS A02 L	B05J2	1-12 *	P		1		0-7/8	57
BUS A02 L	B06J2	1-13 *	P		2		0-7/8	57
BUS A02 L	B07J2	1-14 *	P		1		0-7/8	57
BUS A02 L	B08J2	1-15 *	P		2		0-7/8	57
BUS A02 L	B09J2	1-16 *	P					57
BUS A02 L		1					29-5/8	57
BUS A03 L	B01J1	1-01 *	P		1		0-7/8	58
BUS A03 L	B02J1	1-02 *	P		2		0-7/8	58
BUS A03 L	B03J1	1-03 *	P		1		0-7/8	58
BUS A03 L	B04J1	1-04 *			2		9-5/8	58
BUS A03 L	E03V2	1-05 *	P		1		0-7/8	58
BUS A03 L	E04V2	1-06 *	P		2		0-7/8	58
BUS A03 L	E05V2	1-07 *	P		1		0-7/8	58
BUS A03 L	E06V2	1-08 *	P		2		0-7/8	58
BUS A03 L	E07V2	1-09 *	P		1		0-7/8	58
BUS A03 L	E08V2	1-10 *	P		2		0-7/8	58
BUS A03 L	E09V2	1-11 *			1		11-5/8	58
BUS A03 L	B05J1	1-12 *	P		2		0-7/8	58
BUS A03 L	B06J1	1-13 *	P		1		0-7/8	58
BUS A03 L	B07J1	1-14 *	P		2		0-7/8	58
BUS A03 L	B08J1	1-15 *	P		1		0-7/8	58
BUS A03 L	B09J1	1-16 *	P					58
BUS A03 L		1					32-5/8	58
BUS A04 L	B01K2	1-01 *	P		2		0-7/8	59
BUS A04 L	B02K2	1-02 *	P		1		0-7/8	59
BUS A04 L	B03K2	1-03 *	P		2		0-7/8	59
BUS A04 L	B04K2	1-04 *			1		9-5/8	59
BUS A04 L	E03U2	1-05 *	P		2		0-7/8	59
BUS A04 L	E04U2	1-06 *	P		1		0-7/8	59
BUS A04 L	E05U2	1-07 *	P		2		0-7/8	59
BUS A04 L	E06U2	1-08 *	P		1		0-7/8	59
BUS A04 L	E07U2	1-09 *	P		2		0-7/8	59
BUS A04 L	E08U2	1-10 *	P		1		0-7/8	59
BUS A04 L	E09U2	1-11 *			2		11-1/8	59
BUS A04 L	B05K2	1-12 *	P		1		0-7/8	59
BUS A04 L	B06K2	1-13 *	P		2		0-7/8	59
BUS A04 L	B07K2	1-14 *	P		1		0-7/8	59
BUS A04 L	B08K2	1-15 *	P		2		0-7/8	59
BUS A04 L	B09K2	1-16 *	P					59
BUS A04 L		1					32-1/8	59

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BUS A05 L	B01K1	1-01 *	P		1	0-7/8	60
BUS A05 L	B02K1	1-02 *	P		2	0-7/8	60
BUS A05 L	B03K1	1-03 *	P		1	0-7/8	60
BUS A05 L	B04K1	1-04 *			2	9-5/8	60
BUS A05 L	E03V1	1-05 *	P		1	0-7/8	60
BUS A05 L	E04V1	1-06 *	P		2	0-7/8	60
BUS A05 L	E05V1	1-07 *	P		1	0-7/8	60
BUS A05 L	E06V1	1-08 *	P		2	0-7/8	60
BUS A05 L	E07V1	1-09 *	P		1	0-7/8	60
BUS A05 L	E08V1	1-10 *	P		2	0-7/8	60
BUS A05 L	E09V1	1-11 *			1	11-3/8	60
BUS A05 L	B05K1	1-12 *	P		2	0-7/8	60
BUS A05 L	B06K1	1-13 *	P		1	0-7/8	60
BUS A05 L	B07K1	1-14 *	P		2	0-7/8	60
BUS A05 L	B08K1	1-15 *	P		1	0-7/8	60
BUS A05 L	B09K1	1-16 *	P				60
BUS A05 L		1				32-3/8	60
BUS A06 L	B01L2	1-01 *	P		2	0-7/8	61
BUS A06 L	B02L2	1-02 *	P		1	0-7/8	61
BUS A06 L	B03L2	1-03 *	P		2	0-7/8	61
BUS A06 L	B04L2	1-04 *			1	9-7/8	61
BUS A06 L	E03U1	1-05 *	P		2	0-7/8	61
BUS A06 L	E04U1	1-06 *	P		1	0-7/8	61
BUS A06 L	E05U1	1-07 *	P		2	0-7/8	61
BUS A06 L	E06U1	1-08 *	P		1	0-7/8	61
BUS A06 L	E07U1	1-09 *	P		2	0-7/8	61
BUS A06 L	E08U1	1-10 *	P		1	0-7/8	61
BUS A06 L	E09U1	1-11 *			2	10-5/8	61
BUS A06 L	B05L2	1-12 *	P		1	0-7/8	61
BUS A06 L	B06L2	1-13 *	P		2	0-7/8	61
BUS A06 L	B07L2	1-14 *	P		1	0-7/8	61
BUS A06 L	B08L2	1-15 *	P		2	0-7/8	61
BUS A06 L	B09L2	1-16 *	P				61
BUS A06 L		1				31-7/8	61
BUS A07 L	B01L1	1-01 *	P		1	0-7/8	62
BUS A07 L	B02L1	1-02 *	P		2	0-7/8	62
BUS A07 L	B03L1	1-03 *	P		1	0-7/8	62
BUS A07 L	B04L1	1-04 *			2	8-7/8	62
BUS A07 L	E03P2	1-05 *	P		1	0-7/8	62
BUS A07 L	E04P2	1-06 *	P		2	0-7/8	62
BUS A07 L	E05P2	1-07 *	P		1	0-7/8	62
BUS A07 L	E06P2	1-08 *	P		2	0-7/8	62
BUS A07 L	E07P2	1-09 *	P		1	0-7/8	62
BUS A07 L	E08P2	1-10 *	P		2	0-7/8	62
BUS A07 L	E09P2	1-11 *			1	10-5/8	62
BUS A07 L	B05L1	1-12 *	P		2	0-7/8	62
BUS A07 L	B06L1	1-13 *	P		1	0-7/8	62
BUS A07 L	B07L1	1-14 *	P		2	0-7/8	62
BUS A07 L	B08L1	1-15 *	P		1	0-7/8	62
BUS A07 L	B09L1	1-16 *	P				62
BUS A07 L		1				30-7/8	62

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BUS A00 L	B01M2	1-01 *	P		1	0-7/8	63
BUS A00 L	B02M2	1-02 *	P		2	0-7/8	63
BUS A00 L	B03M2	1-03 *	P		1	0-7/8	63
BUS A00 L	B04M2	1-04 *			2	0-5/8	63
BUS A00 L	E03N2	1-05 *	P		1	0-7/8	63
BUS A00 L	E04N2	1-06 *	P		2	0-7/8	63
BUS A00 L	E05N2	1-07 *	P		1	0-7/8	63
BUS A00 L	E06N2	1-08 *	P		2	0-7/8	63
BUS A00 L	E07N2	1-09 *	P		1	0-7/8	63
BUS A00 L	E08N2	1-10 *	P		2	0-7/8	63
BUS A00 L	E09N2	1-11 *			1	10-3/8	63
BUS A00 L	B05M2	1-12 *	P		2	0-7/8	63
BUS A00 L	B06M2	1-13 *	P		1	0-7/8	63
BUS A00 L	B07M2	1-14 *	P		2	0-7/8	63
BUS A00 L	B08M2	1-15 *	P		1	0-7/8	63
BUS A00 L	B09M2	1-16 *	P				63
BUS A00 L		1				30-3/8	63
BUS A09 L	B01M1	1-01 *	P		1	0-7/8	64
BUS A09 L	B02M1	1-02 *	P		2	0-7/8	64
BUS A09 L	B03M1	1-03 *	P		1	0-7/8	64
BUS A09 L	B04M1	1-04 *			2	0-7/8	64
BUS A09 L	E03R1	1-05 *	P		1	0-7/8	64
BUS A09 L	E04R1	1-06 *	P		2	0-7/8	64
BUS A09 L	E05R1	1-07 *	P		1	0-7/8	64
BUS A09 L	E06R1	1-08 *	P		2	0-7/8	64
BUS A09 L	E07R1	1-09 *	P		1	0-7/8	64
BUS A09 L	E08R1	1-10 *	P		2	0-7/8	64
BUS A09 L	E09R1	1-11 *			1	10-5/8	64
BUS A09 L	B05M1	1-12 *	P		2	0-7/8	64
BUS A09 L	B06M1	1-13 *	P		1	0-7/8	64
BUS A09 L	B07M1	1-14 *	P		2	0-7/8	64
BUS A09 L	B08M1	1-15 *	P		1	0-7/8	64
BUS A09 L	B09M1	1-16 *	P				64
BUS A09 L		1				30-7/8	64
BUS A10 L	B01N2	1-01 *	P		2	0-7/8	65
BUS A10 L	B02N2	1-02 *	P		1	0-7/8	65
BUS A10 L	B03N2	1-03 *	P		2	0-7/8	65
BUS A10 L	B04N2	1-04 *			1	9-1/8	65
BUS A10 L	E03P1	1-05 *	P		2	0-7/8	65
BUS A10 L	E04P1	1-06 *	P		1	0-7/8	65
BUS A10 L	E05P1	1-07 *	P		2	0-7/8	65
BUS A10 L	E06P1	1-08 *	P		1	0-7/8	65
BUS A10 L	E07P1	1-09 *	P		2	0-7/8	65
BUS A10 L	E08P1	1-10 *	P		1	0-7/8	65
BUS A10 L	E09P1	1-11 *			2	9-7/8	65
BUS A10 L	B05N2	1-12 *	P		1	0-7/8	65
BUS A10 L	B06N2	1-13 *	P		2	0-7/8	65
BUS A10 L	B07N2	1-14 *	P		1	0-7/8	65
BUS A10 L	B08N2	1-15 *	P		2	0-7/8	65
BUS A10 L	B09N2	1-16 *	P				65
BUS A10 L		1				30-3/8	65

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER OPT

DRAW HV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BUS A11 L	B01N1	1-01 *	P		2		0-7/8	66
BUS A11 L	B02N1	1-02 *	P		1		0-7/8	66
BUS A11 L	B03N1	1-03 *	P		2		0-7/8	66
BUS A11 L	B04N1	1-04 *			1		8-3/8	66
BUS A11 L	E03L1	1-05 *	P		2		0-7/8	66
BUS A11 L	E04L1	1-06 *	P		1		0-7/8	66
BUS A11 L	E05L1	1-07 *	P		2		0-7/8	66
BUS A11 L	E06L1	1-08 *	P		1		0-7/8	66
BUS A11 L	E07L1	1-09 *	P		2		0-7/8	66
BUS A11 L	E08L1	1-10 *	P		1		0-7/8	66
BUS A11 L	E09L1	1-11 *			2		9-7/8	66
BUS A11 L	B05N1	1-12 *	P		1		0-7/8	66
BUS A11 L	B06N1	1-13 *	P		2		0-7/8	66
BUS A11 L	B07N1	1-14 *	P		1		0-7/8	66
BUS A11 L	B08N1	1-15 *	P		2		0-7/8	66
BUS A11 L	B09N1	1-16 *	P					66
BUS A11 L		1					29-5/8	66
BUS A12 L	B01P2	1-01 *	P		2		0-7/8	67
BUS A12 L	B02P2	1-02 *	P		1		0-7/8	67
BUS A12 L	B03P2	1-03 *	P		2		0-7/8	67
BUS A12 L	B04P2	1-04 *			1		7-5/8	67
BUS A12 L	E03C1	1-05 *	P		2		0-7/8	67
BUS A12 L	E04C1	1-06 *	P		1		0-7/8	67
BUS A12 L	E05C1	1-07 *	P		2		0-7/8	67
BUS A12 L	E06C1	1-08 *	P		1		0-7/8	67
BUS A12 L	E07C1	1-09 *	P		2		0-7/8	67
BUS A12 L	E08C1	1-10 *	P		1		0-7/8	67
BUS A12 L	E09C1	1-11 *			2		8-5/8	67
BUS A12 L	B05P2	1-12 *	P		1		0-7/8	67
BUS A12 L	B06P2	1-13 *	P		2		0-7/8	67
BUS A12 L	B07P2	1-14 *	P		1		0-7/8	67
BUS A12 L	B08P2	1-15 *	P		2		0-7/8	67
BUS A12 L	B09P2	1-16 *	P					67
BUS A12 L		1					27-5/8	67
BUS A13 L	B01P1	1-01 *	P		1		0-7/8	68
BUS A13 L	B02P1	1-02 *	P		2		0-7/8	68
BUS A13 L	B03P1	1-03 *	P		1		0-7/8	68
BUS A13 L	B04P1	1-04 *			2		7-7/8	68
BUS A13 L	E03K2	1-05 *	P		1		0-7/8	68
BUS A13 L	E04K2	1-06 *	P		2		0-7/8	68
BUS A13 L	E05K2	1-07 *	P		1		0-7/8	68
BUS A13 L	E06K2	1-08 *	P		2		0-7/8	68
BUS A13 L	E07K2	1-09 *	P		1		0-7/8	68
BUS A13 L	E08K2	1-10 *	P		2		0-7/8	68
BUS A13 L	E09K2	1-11 *			1		9-7/8	68
BUS A13 L	B05P1	1-12 *	P		2		0-7/8	68
BUS A13 L	B06P1	1-13 *	P		1		0-7/8	68
BUS A13 L	B07P1	1-14 *	P		2		0-7/8	68
BUS A13 L	B08P1	1-15 *	P		1		0-7/8	68
BUS A13 L	B09P1	1-16 *	P					68
BUS A13 L		1					29-1/8	68

RUN
NUMBER

BUS A14 L	B01R2	1-01 *	P	2	0-7/8	69
BUS A14 L	B02R2	1-02 *	P	1	0-7/8	69
BUS A14 L	B03R2	1-03 *	P	2	0-7/8	69
BUS A14 L	B04R2	1-04 *		1	8-3/8	69
BUS A14 L	E03K1	1-05 *	P	2	0-7/8	69
BUS A14 L	E04K1	1-06 *	P	1	0-7/8	69
BUS A14 L	E05K1	1-07 *	P	2	0-7/8	69
BUS A14 L	E06K1	1-08 *	P	1	0-7/8	69
BUS A14 L	E07K1	1-09 *	P	2	0-7/8	69
BUS A14 L	E08K1	1-10 *	P	1	0-7/8	69
BUS A14 L	E09K1	1-11 *		2	9-1/8	69
BUS A14 L	B05R2	1-12 *	P	1	0-7/8	69
BUS A14 L	B06R2	1-13 *	P	2	0-7/8	69
BUS A14 L	B07R2	1-14 *	P	1	0-7/8	69
BUS A14 L	B08R2	1-15 *	P	2	0-7/8	69
BUS A14 L	B09R2	1-16 *	P			69
BUS A14 L		1			28-7/8	69
BUS A15 L	B01R1	1-01 *	P	1	0-7/8	70
BUS A15 L	B02R1	1-02 *	P	2	0-7/8	70
BUS A15 L	B03R1	1-03 *	P	1	0-7/8	70
BUS A15 L	B04R1	1-04 *		2	7-1/8	70
BUS A15 L	E03D2	1-05 *		1	0-7/8	70
BUS A15 L	E04D2	1-06 *		2	0-7/8	70
BUS A15 L	E05D2	1-07 *		1	0-7/8	70
BUS A15 L	E06D2	1-08 *		2	0-7/8	70
BUS A15 L	E07D2	1-09 *		1	0-7/8	70
BUS A15 L	E08D2	1-10 *		2	0-7/8	70
BUS A15 L	E09D2	1-11 *		1	9-1/8	70
BUS A15 L	B05R1	1-12 *	P	2	0-7/8	70
BUS A15 L	B06R1	1-13 *	P	1	0-7/8	70
BUS A15 L	B07R1	1-14 *	P	2	0-7/8	70
BUS A15 L	B08R1	1-15 *	P	1	0-7/8	70
BUS A15 L	B09R1	1-16 *	P			70
BUS A15 L		1			27-5/8	70
BUS A16 L	B01S2	1-01 *	P	2	0-7/8	71
BUS A16 L	B02S2	1-02 *	P	1	0-7/8	71
BUS A16 L	B03S2	1-03 *	P	2	0-7/8	71
BUS A16 L	B04S2	1-04 *		1	7-3/8	71
BUS A16 L	E03E2	1-05 *	P	2	0-7/8	71
BUS A16 L	E04E2	1-06 *	P	1	0-7/8	71
BUS A16 L	E05E2	1-07 *	P	2	0-7/8	71
BUS A16 L	E06E2	1-08 *	P	1	0-7/8	71
BUS A16 L	E07E2	1-09 *	P	2	0-7/8	71
BUS A16 L	E08E2	1-10 *	P	1	0-7/8	71
BUS A16 L	E09E2	1-11 *		2	8-7/8	71
BUS A16 L	B05S2	1-12 *	P	1	0-7/8	71
BUS A16 L	B06S2	1-13 *	P	2	0-7/8	71
BUS A16 L	B07S2	1-14 *	P	1	0-7/8	71
BUS A16 L	B08S2	1-15 *	P	2	0-7/8	71
BUS A16 L	B09S2	1-16 *	P			71
BUS A16 L		1			27-5/8	71

DD11P,C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY = Q
NAME PIN ORDER OPT

DRAW RV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BUS A17 L	B01S1	1-01 *	P		1	0-7/8	72
BUS A17 L	B02S1	1-02 *	P		2	0-7/8	72
BUS A17 L	B03S1	1-03 *	P		1	0-7/8	72
BUS A17 L	B04S1	1-04 *			2	7-1/8	72
BUS A17 L	E03D1	1-05 *	P		1	0-7/8	72
BUS A17 L	E04D1	1-06 *	P		2	0-7/8	72
BUS A17 L	E05D1	1-07 *	P		1	0-7/8	72
BUS A17 L	E06D1	1-08 *	P		2	0-7/8	72
BUS A17 L	E07D1	1-09 *	P		1	0-7/8	72
BUS A17 L	E08D1	1-10 *	P		2	0-7/8	72
BUS A17 L	E09D1	1-11 *			1	8-7/8	72
BUS A17 L	B05S1	1-12 *	P		2	0-7/8	72
BUS A17 L	B06S1	1-13 *	P		1	0-7/8	72
BUS A17 L	B07S1	1-14 *	P		2	0-7/8	72
BUS A17 L	B08S1	1-15 *	P		1	0-7/8	72
BUS A17 L	B09S1	1-16 *	P				72
BUS A17 L		1				27-3/8	72
BUS D00 L	A01C1	1-01 *	P		1	0-7/8	73
BUS D00 L	A02C1	1-02 *			2	0-7/8	73
BUS D00 L	A03C1	1-03 *			1	0-7/8	73
BUS D00 L	A04C1	1-04 *			2	7-3/8	73
BUS D00 L	C03S2	1-05 *			1	0-7/8	73
BUS D00 L	C04S2	1-06 *			2	0-7/8	73
BUS D00 L	C05S2	1-07 *			1	0-7/8	73
BUS D00 L	C06S2	1-08 *			2	0-7/8	73
BUS D00 L	C07S2	1-09 *			1	0-7/8	73
BUS D00 L	C08S2	1-10 *			2	0-7/8	73
BUS D00 L	C09S2	1-11 *			1	9-3/8	73
BUS D00 L	A05C1	1-12 *			2	0-7/8	73
BUS D00 L	A06C1	1-13 *			1	0-7/8	73
BUS D00 L	A07C1	1-14 *			2	0-7/8	73
BUS D00 L	A08C1	1-15 *			1	0-7/8	73
BUS D00 L	A09C1	1-16 *					73
BUS D00 L		1				28-1/8	73
BUS D01 L	A01D2	1-01 *	P		2	0-7/8	74
BUS D01 L	A02D2	1-02 *	P		1	0-7/8	74
BUS D01 L	A03D2	1-03 *	P		2	0-7/8	74
BUS D01 L	A04D2	1-04 *			1	7-3/8	74
BUS D01 L	C03R2	1-05 *	P		2	0-7/8	74
BUS D01 L	C04R2	1-06 *	P		1	0-7/8	74
BUS D01 L	C05R2	1-07 *	P		2	0-7/8	74
BUS D01 L	C06R2	1-08 *	P		1	0-7/8	74
BUS D01 L	C07R2	1-09 *	P		2	0-7/8	74
BUS D01 L	C08R2	1-10 *	P		1	0-7/8	74
BUS D01 L	C09R2	1-11 *			2	8-7/8	74
BUS D01 L	A05D2	1-12 *	P		1	0-7/8	74
BUS D01 L	A06D2	1-13 *	P		2	0-7/8	74
BUS D01 L	A07D2	1-14 *	P		1	0-7/8	74
BUS D01 L	A08D2	1-15 *	P		2	0-7/8	74
BUS D01 L	A09D2	1-16 *	P				74
BUS D01 L		1				27-5/8	74

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77

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A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	NC FLAG	LENGTH	EXCEPTIONS	RUN NUMBER
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BUS	D02	L	A01D1	1-01 *	P					1			0-7/8		75
BUS	D02	L	A02D1	1-02 *	P					2			0-7/8		75
BUS	D02	L	A03D1	1-03 *	P					1			0-7/8		75
BUS	D02	L	A04D1	1-04 *						2			7-5/8		75
BUS	D02	L	C03U2	1-05 *	P					1			0-7/8		75
BUS	D02	L	C04U2	1-06 *	P					2			0-7/8		75
BUS	D02	L	C05U2	1-07 *						1			6-7/8		75
BUS	D02	L	F05E2	1-08 *	P					1			1-3/8		75
BUS	D02	L	F03E2	1-09 *	P					1			0-7/8		75
BUS	D02	L	F04E2	1-10 *	P					2			1-3/8		75
BUS	D02	L	F06E2	1-11 *	P					2			6-7/8		75
BUS	D02	L	F07E2	1-12 *	P					1			0-7/8		75
BUS	D02	L	F08E2	1-13 *	P					2			0-7/8		75
BUS	D02	L	F09E2	1-14 *						1			8-3/8		75
BUS	D02	L	C06U2	1-15 *	P					2			0-7/8		75
BUS	D02	L	C07U2	1-16 *	P					1			0-7/8		75
BUS	D02	L	C08U2	1-17 *	P					2			0-7/8		75
BUS	D02	L	C09U2	1-18 *						1			9-3/8		75
BUS	D02	L	A05D1	1-19 *	P					2			0-7/8		75
BUS	D02	L	A06D1	1-20 *	P					1			0-7/8		75
BUS	D02	L	A07D1	1-21 *	P					2			0-7/8		75
BUS	D02	L	A08D1	1-22 *	P					1			0-7/8		75
BUS	D02	L	A09D1	1-23 *											75
BUS	D02	L		1									49-0/8		75

BUS	D03	L	A01E2	1-01 *	P					1			0-7/8		76
BUS	D03	L	A02E2	1-02 *	P					2			0-7/8		76
BUS	D03	L	A03E2	1-03 *	P					1			0-7/8		76
BUS	D03	L	A04E2	1-04 *						2			7-3/8		76
BUS	D03	L	C03T2	1-05 *	P					1			0-7/8		76
BUS	D03	L	C04T2	1-06 *	P					2			0-7/8		76
BUS	D03	L	C05T2	1-07 *						1			7-7/8		76
BUS	D03	L	F05L1	1-08 *	P					1			1-3/8		76
BUS	D03	L	F03L1	1-09 *	P					1			0-7/8		76
BUS	D03	L	F04L1	1-10 *	P					2			1-3/8		76
BUS	D03	L	F06L1	1-11 *	P					2			0-7/8		76
BUS	D03	L	F07L1	1-12 *	P					1			0-7/8		76
BUS	D03	L	F08L1	1-13 *	P					2			0-7/8		76
BUS	D03	L	F09L1	1-14 *						1			8-7/8		76
BUS	D03	L	C06T2	1-15 *	P					2			0-7/8		76
BUS	D03	L	C07T2	1-16 *	P					1			0-7/8		76
BUS	D03	L	C08T2	1-17 *	P					2			0-7/8		76
BUS	D03	L	C09T2	1-18 *						1			9-1/8		76
BUS	D03	L	A05E2	1-19 *	P					2			0-7/8		76
BUS	D03	L	A06E2	1-20 *	P					1			0-7/8		76
BUS	D03	L	A07E2	1-21 *	P					2			0-7/8		76
BUS	D03	L	A08E2	1-22 *	P					1			0-7/8		76
BUS	D03	L	A09E2	1-23 *											76
BUS	D03	L		1									50-0/8		76

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BUS D04 L	A01E1	1-01 *	P		1		0-7/8	77
BUS D04 L	A02E1	1-02 *	P		2		0-7/8	77
BUS D04 L	A03E1	1-03 *	P		1		0-7/8	77
BUS D04 L	A04E1	1-04 *			2		6-5/8	77
BUS D04 L	C03N2	1-05 *	P		1		0-7/8	77
BUS D04 L	C04N2	1-06 *	P		2		0-7/8	77
BUS D04 L	C05N2	1-07 *			1		8-3/8	77
BUS D04 L	F05N2	1-08 *	P		1		1-3/8	77
BUS D04 L	F03N2	1-09 *	P		1		0-7/8	77
BUS D04 L	F04N2	1-10 *	P		2		1-3/8	77
BUS D04 L	F06N2	1-11 *	P		2		0-7/8	77
BUS D04 L	F07N2	1-12 *	P		1		0-7/8	77
BUS D04 L	F08N2	1-13 *	P		2		0-1/8	77
BUS D04 L	F09N2	1-14 *			1		9-7/8	77
BUS D04 L	C06N2	1-15 *	P		2		0-7/8	77
BUS D04 L	C07N2	1-16 *	P		1		0-7/8	77
BUS D04 L	C08N2	1-17 *	P		2		0-7/8	77
BUS D04 L	C09N2	1-18 *			1		8-7/8	77
BUS D04 L	A05E1	1-19 *	P		2		0-7/8	77
BUS D04 L	A06E1	1-20 *	P		1		0-7/8	77
BUS D04 L	A07E1	1-21 *	P		2		0-7/8	77
BUS D04 L	A08E1	1-22 *	P		1		0-7/8	77
BUS D04 L	A09E1	1-23 *						77
BUS D04 L		1					50-4/8	77
BUS D05 L	A01F2	1-01 *	P		2		0-7/8	78
BUS D05 L	A02F2	1-02 *	P		1		0-7/8	78
BUS D05 L	A03F2	1-03 *	P		2		0-7/8	78
BUS D05 L	A04F2	1-04 *			1		7-1/8	78
BUS D05 L	C03P2	1-05 *	P		2		0-7/8	78
BUS D05 L	C04P2	1-06 *	P		1		0-7/8	78
BUS D05 L	C05P2	1-07 *			2		7-5/8	78
BUS D05 L	F05F1	1-08 *	P		2		1-3/8	78
BUS D05 L	F03F1	1-09 *	P		2		0-7/8	78
BUS D05 L	F04F1	1-10 *	P		1		1-3/8	78
BUS D05 L	F06F1	1-11 *	P		1		0-7/8	78
BUS D05 L	F07F1	1-12 *	P		2		0-7/8	78
BUS D05 L	F08F1	1-13 *	P		1		0-7/8	78
BUS D05 L	F09F1	1-14 *			1		8-7/8	78
BUS D05 L	C06P2	1-15 *	P		1		0-7/8	78
BUS D05 L	C07P2	1-16 *	P		2		0-7/8	78
BUS D05 L	C08P2	1-17 *	P		1		0-7/8	78
BUS D05 L	C09P2	1-18 *			2		8-3/8	78
BUS D05 L	A05F2	1-19 *	P		1		0-7/8	78
BUS D05 L	A06F2	1-20 *	P		2		0-7/8	78
BUS D05 L	A07F2	1-21 *	P		1		0-7/8	78
BUS D05 L	A08F2	1-22 *	P		2		0-7/8	78
BUS D05 L	A09F2	1-23 *						78
BUS D05 L		1					48-6/8	78

RUN
 NUMBER

BUS	D06	L	A01F1	1-01 *	P	1	0-7/8	79
BUS	D06	L	A02F1	1-02 *	P	2	0-7/8	79
BUS	D06	L	A03F1	1-03 *	P	1	0-7/8	79
BUS	D06	L	A04F1	1-04 *		2	7-3/8	79
BUS	D06	L	C03V2	1-05 *	P	1	0-7/8	79
BUS	D06	L	C04V2	1-06 *	P	2	0-7/8	79
BUS	D06	L	C05V2	1-07 *		1	6-7/8	79
BUS	D06	L	F05F2	1-08 *	P	1	1-3/8	79
BUS	D06	L	F03F2	1-09 *	P	1	0-7/8	79
BUS	D06	L	F04F2	1-10 *	P	2	1-3/8	79
BUS	D06	L	F06F2	1-11 *	P	2	0-7/8	79
BUS	D06	L	F07F2	1-12 *	P	1	0-7/8	79
BUS	D06	L	F08F2	1-13 *	P	2	0-7/8	79
BUS	D06	L	F09F2	1-14 *		1	8-3/8	79
BUS	D06	L	C06V2	1-15 *	P	2	0-7/8	79
BUS	D06	L	C07V2	1-16 *	P	1	0-7/8	79
BUS	D06	L	C08V2	1-17 *	P	2	0-7/8	79
BUS	D06	L	C09V2	1-18 *		1	9-3/8	79
BUS	D06	L	A05F1	1-19 *	P	2	0-7/8	79
BUS	D06	L	A06F1	1-20 *	P	1	0-7/8	79
BUS	D06	L	A07F1	1-21 *	P	2	0-7/8	79
BUS	D06	L	A08F1	1-22 *	P	1	0-7/8	79
BUS	D06	L	A09F1	1-23 *				79
BUS	D06	L		1			48-6/8	79
BUS	D07	L	A01H2	1-01 *	P	1	0-7/8	80
BUS	D07	L	A02H2	1-02 *	P	2	0-7/8	80
BUS	D07	L	A03H2	1-03 *	P	1	0-7/8	80
BUS	D07	L	A04H2	1-04 *		2	0-5/8	80
BUS	D07	L	C03M2	1-05 *	P	1	0-7/8	80
BUS	D07	L	C04M2	1-06 *	P	2	0-7/8	80
BUS	D07	L	C05M2	1-07 *		1	8-1/8	80
BUS	D07	L	F05H1	1-08 *	P	1	1-3/8	80
BUS	D07	L	F03H1	1-09 *	P	1	0-7/8	80
BUS	D07	L	F04H1	1-10 *	P	2	1-3/8	80
BUS	D07	L	F06H1	1-11 *	P	2	0-7/8	80
BUS	D07	L	F07H1	1-12 *	P	1	0-7/8	80
BUS	D07	L	F08H1	1-13 *	P	2	0-7/8	80
BUS	D07	L	F09H1	1-14 *		1	9-1/8	80
BUS	D07	L	C06M2	1-15 *	P	2	0-7/8	80
BUS	D07	L	C07M2	1-16 *	P	1	0-7/8	80
BUS	D07	L	C08M2	1-17 *	P	2	0-7/8	80
BUS	D07	L	C09M2	1-18 *		1	8-1/8	80
BUS	D07	L	A05H2	1-19 *	P	2	0-7/8	80
BUS	D07	L	A06H2	1-20 *	P	1	0-7/8	80
BUS	D07	L	A07H2	1-21 *	P	2	0-7/8	80
BUS	D07	L	A08H2	1-22 *	P	1	0-7/8	80
BUS	D07	L	A09H2	1-23 *				80
BUS	D07	L		1			48-6/8	80

DD11P,C		VGWRAP 35(102)-1		03-JUN-77				10-JUL-78		9117		PAGE 19					
RUN NAME		A/P	PIN	ORDER	BAY	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	RUN
			NAME	PIN	ORDER		OPT							FLAG			NUMBER
BUS	D00 L		A01H1		1-01 *	P						1			0-7/8		01
BUS	D00 L		A02H1		1-02 *	P						2			0-7/8		01
BUS	D00 L		A03H1		1-03 *	P						1			0-7/8		01
BUS	D00 L		A04H1		1-04 *							2			6-1/8		01
BUS	D00 L		C03L2		1-05 *	P						1			0-7/8		01
BUS	D00 L		C04L2		1-06 *	P						2			0-7/8		01
BUS	D00 L		C05L2		1-07 *							1			8-5/8		01
BUS	D00 L		F05K1		1-08 *	P						1			1-3/8		01
BUS	D00 L		F03K1		1-09 *	P						1			0-7/8		01
BUS	D00 L		F04K1		1-10 *	P						2			1-3/8		01
BUS	D00 L		F06K1		1-11 *	P						2			0-7/8		01
BUS	D00 L		F07K1		1-12 *	P						1			0-7/8		01
BUS	D00 L		F08K1		1-13 *	P						2			0-7/8		01
BUS	D00 L		F09K1		1-14 *							1			9-3/8		01
BUS	D00 L		C06L2		1-15 *	P						2			0-7/8		01
BUS	D00 L		C07L2		1-16 *	P						1			0-7/8		01
BUS	D00 L		C08L2		1-17 *	P						2			0-7/8		01
BUS	D00 L		C09L2		1-18 *							1			8-3/8		01
BUS	D00 L		A05H1		1-19 *	P						2			0-7/8		01
BUS	D00 L		A06H1		1-20 *	P						1			0-7/8		01
BUS	D00 L		A07H1		1-21 *	P						2			0-7/8		01
BUS	D00 L		A08H1		1-22 *	P						1			0-7/8		01
BUS	D00 L		A09H1		1-23 *												01
BUS	D00 L				1										49-2/8		01
BUS	D09 L		A01J2		1-01 *	P						2			0-7/8		02
BUS	D09 L		A02J2		1-02 *	P						1			0-7/8		02
BUS	D09 L		A03J2		1-03 *	P						2			0-7/8		02
BUS	D09 L		A04J2		1-04 *							1			6-3/8		02
BUS	D09 L		C03K2		1-05 *	P						2			0-7/8		02
BUS	D09 L		C04K2		1-06 *	P						1			0-7/8		02
BUS	D09 L		C05K2		1-07 *	P						2			0-7/8		02
BUS	D09 L		C06K2		1-08 *	P						1			0-7/8		02
BUS	D09 L		C07K2		1-09 *	P						2			0-7/8		02
BUS	D09 L		C08K2		1-10 *	P						1			0-7/8		02
BUS	D09 L		C09K2		1-11 *							2			7-5/8		02
BUS	D09 L		A05J2		1-12 *	P						1			0-7/8		02
BUS	D09 L		A06J2		1-13 *	P						2			0-7/8		02
BUS	D09 L		A07J2		1-14 *	P						1			0-7/8		02
BUS	D09 L		A08J2		1-15 *	P						2			0-7/8		02
BUS	D09 L		A09J2		1-16 *	P											02
BUS	D09 L				1										25-3/8		02

RUN
 NUMBER

BUS	D10	L	A01J1	1-01 *	P	1	0-7/8	83
BUS	D10	L	A02J1	1-02 *	P	2	0-7/8	83
BUS	D10	L	A03J1	1-03 *	P	1	0-7/8	83
BUS	D10	L	A04J1	1-04 *		2	5-7/8	83
BUS	D10	L	C03J2	1-05 *	P	1	0-7/8	83
BUS	D10	L	C04J2	1-06 *	P	2	0-7/8	83
BUS	D10	L	C05J2	1-07 *	P	1	0-7/8	83
BUS	D10	L	C06J2	1-08 *	P	2	0-7/8	83
BUS	D10	L	C07J2	1-09 *	P	1	0-7/8	83
BUS	D10	L	C08J2	1-10 *	P	2	0-7/8	83
BUS	D10	L	C09J2	1-11 *		1	7-7/8	83
BUS	D10	L	A05J1	1-12 *	P	2	0-7/8	83
BUS	D10	L	A06J1	1-13 *	P	1	0-7/8	83
BUS	D10	L	A07J1	1-14 *	P	2	0-7/8	83
BUS	D10	L	A08J1	1-15 *	P	1	0-7/8	83
BUS	D10	L	A09J1	1-16 *	P			83
BUS	D10	L		1			25-1/8	83
BUS	D11	L	A01K2	1-01 *	P	2	0-7/8	84
BUS	D11	L	A02K2	1-02 *	P	1	0-7/8	84
BUS	D11	L	A03K2	1-03 *	P	2	0-7/8	84
BUS	D11	L	A04K2	1-04 *		1	6-1/8	84
BUS	D11	L	C03H1	1-05 *	P	2	0-7/8	84
BUS	D11	L	C04H1	1-06 *	P	1	0-7/8	84
BUS	D11	L	C05H1	1-07 *	P	2	0-7/8	84
BUS	D11	L	C06H1	1-08 *	P	1	0-7/8	84
BUS	D11	L	C07H1	1-09 *	P	2	0-7/8	84
BUS	D11	L	C08H1	1-10 *	P	1	0-7/8	84
BUS	D11	L	C09H1	1-11 *		2	7-1/8	84
BUS	D11	L	A05K2	1-12 *	P	1	0-7/8	84
BUS	D11	L	A06K2	1-13 *	P	2	0-7/8	84
BUS	D11	L	A07K2	1-14 *	P	1	0-7/8	84
BUS	D11	L	A08K2	1-15 *	P	2	0-7/8	84
BUS	D11	L	A09K2	1-16 *	P			84
BUS	D11	L		1			24-5/8	84
BUS	D12	L	A01K1	1-01 *	P	1	0-7/8	85
BUS	D12	L	A02K1	1-02 *	P	2	0-7/8	85
BUS	D12	L	A03K1	1-03 *	P	1	0-7/8	85
BUS	D12	L	A04K1	1-04 *		2	5-5/8	85
BUS	D12	L	C03H2	1-05 *	P	1	0-7/8	85
BUS	D12	L	C04H2	1-06 *	P	2	0-7/8	85
BUS	D12	L	C05H2	1-07 *	P	1	0-7/8	85
BUS	D12	L	C06H2	1-08 *	P	2	0-7/8	85
BUS	D12	L	C07H2	1-09 *	P	1	0-7/8	85
BUS	D12	L	C08H2	1-10 *	P	2	0-7/8	85
BUS	D12	L	C09H2	1-11 *		1	7-5/8	85
BUS	D12	L	A05K1	1-12 *	P	2	0-7/8	85
BUS	D12	L	A06K1	1-13 *	P	1	0-7/8	85
BUS	D12	L	A07K1	1-14 *	P	2	0-7/8	85
BUS	D12	L	A08K1	1-15 *	P	1	0-7/8	85
BUS	D12	L	A09K1	1-16 *	P			85
BUS	D12	L		1			24-5/8	85

DD11P,C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY = Q
NAME PIN ORDER

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9117 PAGE 21
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

BUS D13 L	A01L2	1-01 *	P		1		0-7/8	86
BUS D13 L	A02L2	1-02 *	P		2		0-7/8	86
BUS D13 L	A03L2	1-03 *	P		1		0-7/8	86
BUS D13 L	A04L2	1-04 *			2		5-5/8	86
BUS D13 L	C03F2	1-05 *	P		1		0-7/8	86
BUS D13 L	C04F2	1-06 *	P		2		0-7/8	86
BUS D13 L	C05F2	1-07 *	P		1		0-7/8	86
BUS D13 L	C06F2	1-08 *	P		2		0-7/8	86
BUS D13 L	C07F2	1-09 *	P		1		0-7/8	86
BUS D13 L	C08F2	1-10 *	P		2		0-7/8	86
BUS D13 L	C09F2	1-11 *			1		7-1/8	86
BUS D13 L	A05L2	1-12 *	P		2		0-7/8	86
BUS D13 L	A06L2	1-13 *	P		1		0-7/8	86
BUS D13 L	A07L2	1-14 *	P		2		0-7/8	86
BUS D13 L	A08L2	1-15 *	P		1		0-7/8	86
BUS D13 L	A09L2	1-16 *	P					86
BUS D13 L		1					24-1/8	86
BUS D14 L	A01L1	1-01 *	P		1		0-7/8	87
BUS D14 L	A02L1	1-02 *	P		2		0-7/8	87
BUS D14 L	A03L1	1-03 *	P		1		0-7/8	87
BUS D14 L	A04L1	1-04 *			2		5-3/8	87
BUS D14 L	C03E2	1-05 *	P		1		0-7/8	87
BUS D14 L	C04E2	1-06 *	P		2		0-7/8	87
BUS D14 L	C05E2	1-07 *	P		1		0-7/8	87
BUS D14 L	C06E2	1-08 *	P		2		0-7/8	87
BUS D14 L	C07E2	1-09 *	P		1		0-7/8	87
BUS D14 L	C08E2	1-10 *	P		2		0-7/8	87
BUS D14 L	C09E2	1-11 *			1		7-1/8	87
BUS D14 L	A05L1	1-12 *	P		2		0-7/8	87
BUS D14 L	A06L1	1-13 *	P		1		0-7/8	87
BUS D14 L	A07L1	1-14 *	P		2		0-7/8	87
BUS D14 L	A08L1	1-15 *	P		1		0-7/8	87
BUS D14 L	A09L1	1-16 *	P					87
BUS D14 L		1					23-7/8	87
BUS D15 L	A01M2	1-01 *	P		1		0-7/8	88
BUS D15 L	A02M2	1-02 *	P		2		0-7/8	88
BUS D15 L	A03M2	1-03 *	P		1		0-7/8	88
BUS D15 L	A04M2	1-04 *			2		5-1/8	88
BUS D15 L	C03D2	1-05 *			1		0-7/8	88
BUS D15 L	C04D2	1-06 *			2		0-7/8	88
BUS D15 L	C05D2	1-07 *			1		0-7/8	88
BUS D15 L	C06D2	1-08 *			2		0-7/8	88
BUS D15 L	C07D2	1-09 *			1		0-7/8	88
BUS D15 L	C08D2	1-10 *			2		0-7/8	88
BUS D15 L	C09D2	1-11 *			1		6-7/8	88
BUS D15 L	A05M2	1-12 *	P		2		0-7/8	88
BUS D15 L	A06M2	1-13 *	P		1		0-7/8	88
BUS D15 L	A07M2	1-14 *	P		2		0-7/8	88
BUS D15 L	A08M2	1-15 *	P		1		0-7/8	88
BUS D15 L	A09M2	1-16 *	P					88
BUS D15 L		1					23-3/8	88

DD11P.C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN ORDER	Q	DRAW	RV	RG	Y	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 22 EXCEPTIONS	RUN NUMBER
C BG IN	D03U2	1-01 *							1			3-7/8		89
C BG IN	F03B1	1-02 *												89
C BG IN		1										3-7/8		89
C BG OUT	D03V2	1-01 *							1			3-7/8		90
C BG OUT	F03A1	1-02 *												90
C BG OUT		1										3-7/8		90
C BR OUT	D03J2	1-01 *							1			6-5/8		91
C BR OUT	F03P1	1-02 *							2			1		91
C BR OUT	F03U2	1-03 *												91
C BR OUT		1										7-5/8		91
C IN	D03H1	1-01 *							1			3-3/8		92
C IN	E03M1	1-02 *												92
C IN		1										3-3/8		92
C INT A	D03N1	1-01 *							1			6-3/8		93
C INT A	F03U1	1-02 *												93
C INT A		1										6-3/8		93
C INT B	C03J1	1-01 *							1			8-5/8		94
C INT B	F03K2	1-02 *												94
C INT B		1										8-5/8		94
C INT ENB A	D03M1	1-01 *							1			6-5/8		95
C INT ENB A	F03V1	1-02 *												95
C INT ENB A		1										6-5/8		95
C INT ENB B	C03L1	1-01 *							1			8-1/8		96
C INT ENB B	F03H2	1-02 *												96
C INT ENB B		1										8-1/8		96
C OUT HIGH	D03K1	1-01 *							1			3-3/8		97
C OUT HIGH	E03M2	1-02 *												97
C OUT HIGH		1										3-3/8		97
C OUT LOW	D03D1	1-01 *							1			3-7/8		98
C OUT LOW	E03N1	1-02 *												98
C OUT LOW		1										3-7/8		98
C SEL 0	D03F1	1-01 *							1			4-1/8		99
C SEL 0	E03S2	1-02 *												99
C SEL 0		1										4-1/8		99
C SEL 4	D03E1	1-01 *							1			4-3/8		100
C SEL 4	E03R2	1-02 *												100
C SEL 4		1										4-3/8		100
C SEL 6	D03C1	1-01 *							1			4-3/8		101
C SEL 6	E03S1	1-02 *												101
C SEL 6		1										4-3/8		101
C SER 2	D03J1	1-01 *							1			4-1/8		102
C SER 2	E03T2	1-02 *												102
C SER 2		1										4-1/8		102

RUN
NUMBER

103

[illegible][illegible]

106
106
106

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108

DD11P,C RUN NAME	VGWRAP 35(102)-1 A/P PIN NAME	03-JUN-77 ORDER PIN	0 PAY - ORDER	Q DRAW	RV RG Y OPT	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 24 EXCEPTIONS	RUN NUMBER
D IN	D04H1	1-01 *					1			3-3/8		109
D IN	E04M1	1-02 *										109
D IN		1								3-3/8		109
D INT A	D04N1	1-01 *					1			6-3/8		110
D INT A	F04U1	1-02 *										110
D INT A		1								6-3/8		110
D INT B	C04J1	1-01 *					1			8-5/8		111
D INT B	F04K2	1-02 *										111
D INT B		1								8-5/8		111
D INT ENB A	D04M1	1-01 *					1			6-5/8		112
D INT ENB A	F04V1	1-02 *										112
D INT ENB A		1								6-5/8		112
D INT ENB B	C04L1	1-01 *					1			8-1/8		113
D INT ENB B	F04H2	1-02 *										113
D INT ENB B		1								8-1/8		113
D OUT HIGH	D04K1	1-01 *					1			3-3/8		114
D OUT HIGH	E04M2	1-02 *										114
D OUT HIGH		1								3-3/8		114
D OUT LOW	D04D1	1-01 *					1			3-7/8		115
D OUT LOW	E04N1	1-02 *										115
D OUT LOW		1								3-7/8		115
D SEL 0	D04F1	1-01 *					1			4-1/8		116
D SEL 0	E04S2	1-02 *										116
D SEL 0		1								4-1/8		116
D SEL 4	D04E1	1-01 *					1			4-3/8		117
D SEL 4	E04R2	1-02 *										117
D SEL 4		1								4-3/8		117
D SEL 6	D04C1	1-01 *					1			4-3/8		118
D SEL 6	E04S1	1-02 *										118
D SEL 6		1								4-3/8		118
D SER 2	D04J1	1-01 *					1			4-1/8		119
D SER 2	E04T2	1-02 *										119
D SER 2		1								4-1/8		119
D SSYN IN H	D04V1	1-01 *					1			0-7/8		120
D SSYN IN H	E04B1	1-02 *										120
D SSYN IN H		1								0-7/8		120

DD11P,C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER OPT

DRAW RV KG Y X Z

REMARKS

10-JUL-78

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

DC L	B01F2	1-01 *	P			2		0-7/8	121
DC L	B02F2	1-02 *	P			1		0-7/8	121
DC L	B03F2	1-03 *	P			2		0-7/8	121
DC L	B04F2	1-04 *				1		4-3/8	121
DC L	C03N1	1-05 *	P			2		0-7/8	121
DC L	C04N1	1-06 *	P			1		0-7/8	121
DC L	C05N1	1-07 *	P			2		0-7/8	121
DC L	C06N1	1-08 *	P			1		0-7/8	121
DC L	C07N1	1-09 *	P			2		0-7/8	121
DC I	C08N1	1-10 *	P			1		0-7/8	121
DC I	C09N1	1-11 *				2		5-3/8	121
DC L	B05F2	1-12 *	P			1		0-7/8	121
DC L	B06F2	1-13 *	P			2		0-7/8	121
DC L	B07F2	1-14 *	P			1		0-7/8	121
DC L	B08F2	1-15 *	P			2		0-7/8	121
DC L	B09F2	1-16 *	P						121
DC L		1						21-1/8	121
E BG IN	D05U2	1-01 *				1		3-7/8	122
E BG IN	F05B1	1-02 *							122
E BG IN		1						3-7/8	122
E BG OUT	D05V2	1-01 *				1		3-7/8	123
E BG OUT	F05A1	1-02 *							123
E BG OUT		1						3-7/8	123
E BR OUT	D05J2	1-01 *				1		6-5/8	124
E BR OUT	F05P1	1-02 *				2		1	124
E BR OUT	F05U2	1-03 *							124
E BR OUT		1						7-5/8	124
E IN	D05H1	1-01 *				1		3-3/8	125
E IN	E05M1	1-02 *							125
E IN		1						3-3/8	125
E INT A	D05N1	1-01 *				1		6-3/8	126
E INT A	F05U1	1-02 *							126
E INT A		1						6-3/8	126
E INT B	C05J1	1-01 *				1		8-5/8	127
E INT B	F05K2	1-02 *							127
E INT B		1						8-5/8	127
E INT ENB A	D05M1	1-01 *				1		6-5/8	128
E INT ENB A	F05V1	1-02 *							128
E INT ENB A		1						6-5/8	128
E INT ENB B	C05L1	1-01 *				1		8-1/8	129
E INT ENB B	F05H2	1-02 *							129
E INT ENB B		1						8-1/8	129
E OUT HIGH	D05K1	1-01 *				1		3-3/8	130
E OUT HIGH	E05M2	1-02 *							130
E OUT HIGH		1						3-3/8	130

DD11P,C RUN NAME	VGWRAP 35(102)-1		03-JUN-77												10-JUL-78	9117		PAGE 26		
	A/P	PIN NAME	ORDER PIN	BAY * ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS		NC FLAG	LENGTH	EXCFPTIONS	FUN NUMBER			
E OUT LOW		D05D1		1-01 *							1				3-7/8		131			
E OUT LOW		E05N1		1-02 *													131			
E OUT LOW				1											3-7/8		131			
E SEL 0		D05F1		1-01 *							1				4-1/8		132			
E SEL 0		E05S2		1-02 *													132			
E SEL 0				1											4-1/8		132			
E SEL 4		D05E1		1-01 *							1				4-3/8		133			
E SEL 4		E05R2		1-02 *													133			
E SEL 4				1											4-3/8		133			
E SEL 6		D05C1		1-01 *							1				4-3/8		134			
E SEL 6		E05S1		1-02 *													134			
E SEL 6				1											4-3/8		134			
E SER 2		D05J1		1-01 *							1				4-1/8		135			
E SER 2		E05T2		1-02 *													135			
E SER 2				1											4-1/8		135			
E SSYN IN H		D05V1		1-01 *							1				0-7/8		136			
E SSYN IN H		E05B1		1-02 *													136			
E SSYN IN H				1											0-7/8		136			
F BG IN		D06U2		1-01 *							1				3-7/8		137			
F BG IN		F06B1		1-02 *													137			
F BG IN				1											3-7/8		137			
F BG OUT		D06V2		1-01 *							1				3-7/8		138			
F BG OUT		F06A1		1-02 *													138			
F BG OUT				1											3-7/8		138			
F BR OUT		D06J2		1-01 *							1				6-5/8		139			
F BR OUT		F06P1		1-02 *							2				1		139			
F BR OUT		F06U2		1-03 *													139			
F BR OUT				1											7-5/8		139			
F IN		D06H1		1-01 *							1				3-3/8		140			
F IN		E06M1		1-02 *													140			
F IN				1											3-3/8		140			
F INT A		D06N1		1-01 *							1				6-3/8		141			
F INT A		F06U1		1-02 *													141			
F INT A				1											6-3/8		141			
F INT B		C06J1		1-01 *							1				8-5/8		142			
F INT B		F06K2		1-02 *													142			
F INT B				1											8-5/8		142			
F INT ENB A		D06M1		1-01 *							1				6-5/8		143			
F INT ENB A		F06V1		1-02 *													143			
F INT ENB A				1											6-5/8		143			
F INT ENB B		C06L1		1-01 *							1				8-1/8		144			
F INT ENB B		F06H2		1-02 *													144			
F INT ENB B				1											8-1/8		144			

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

F OUT HIGH
F OUT HIGH
F OUT HIGH

D06K1
E06M2

1-01 *
1-02 *
1

1

3-3/8

145

145

3-3/8

145

F OUT LOW
F OUT LOW
F OUT LOW

D06D1
E06N1

1-01 *
1-02 *
1

1

3-7/8

146

146

3-7/8

146

F SEL 0
F SEL 0
F SEL 0

D06F1
E06S2

1-01 *
1-02 *
1

1

4-1/8

147

147

4-1/8

147

F SEL 4
F SEL 4
F SEL 4

D06E1
E06R2

1-01 *
1-02 *
1

1

4-3/8

148

148

4-3/8

148

F SEL 6
F SEL 6
F SEL 6

D06C1
E06S1

1-01 *
1-02 *
1

1

4-3/8

149

149

4-3/8

149

F SER 2
F SER 2
F SER 2

D06J1
E06T2

1-01 *
1-02 *
1

1

4-1/8

150

150

4-1/8

150

F SSYN IN H
F SSYN IN H
F SSYN IN H

D06V1
E06B1

1-01 *
1-02 *
1

1

0-7/8

151

151

0-7/8

151

F03D2
F03D2
F03D2
F03D2

F03D2
F03R2
F03N1

1-01 *
1-02 *
1-03 *
1

2

1

1-5/8

152

0-4/8

152

152

2-1/8

152

F03E1
F03E1
F03E1

F03E1
F03V2

1-01 *
1-02 *
1

1

2-3/8

153

153

2-3/8

153

F03L2
F03L2
F03L2

F03L2
F03R1

1-01 *
1-02 *
1

1

1

154

154

1-0/8

154

F03M2
F03M2
F03M2

F03M2
F03S1

1-01 *
1-02 *
1

1

1

155

155

1-0/8

155

F03P2
F03P2
F03P2

F03P2
F03S2

1-01 *
1-02 *
1

1

0-4/8

156

156

0-4/8

156

F04D2
F04D2
F04D2
F04D2

F04D2
F04R2
F04N1

1-01 *
1-02 *
1-03 *
1

2

1

1-5/8

157

0-4/8

157

157

2-1/8

157

RUN
 NUMBER

F04E1	F04E1	1-01 *	1	2-3/8	158
F04E1	F04V2	1-02 *			158
F04E1		1		2-3/8	158
F04L2	F04L2	1-01 *	1	1	159
F04L2	F04R1	1-02 *			159
F04L2		1		1-0/8	159
F04M2	F04M2	1-01 *	1	1	160
F04M2	F04S1	1-02 *			160
F04M2		1		1-0/8	160
F04P2	F04P2	1-01 *	1	0-4/8	161
F04P2	F04S2	1-02 *			161
F04P2		1		0-4/8	161
F05D2	F05D2	1-01 *	2	1-5/8	162
F05D2	F05R2	1-02 *	1	0-4/8	162
F05D2	F05N1	1-03 *			162
F05D2		1		2-1/8	162
F05E1	F05E1	1-01 *	1	2-3/8	163
F05E1	F05V2	1-02 *			163
F05E1		1		2-3/8	163
F05L2	F05L2	1-01 *	1	1	164
F05L2	F05R1	1-02 *			164
F05L2		1		1-0/8	164
F05M2	F05M2	1-01 *	1	1	165
F05M2	F05S1	1-02 *			165
F05M2		1		1-0/8	165
F05P2	F05P2	1-01 *	1	0-4/8	166
F05P2	F05S2	1-02 *			166
F05P2		1		0-4/8	166
F06D2	F06D2	1-01 *	2	1-5/8	167
F06D2	F06R2	1-02 *	1	0-4/8	167
F06D2	F06N1	1-03 *			167
F06D2		1		2-1/8	167
F06E1	F06E1	1-01 *	1	2-3/8	168
F06E1	F06V2	1-02 *			168
F06E1		1		2-3/8	168
F06L2	F06L2	1-01 *	1	1	169
F06L2	F06R1	1-02 *			169
F06L2		1		1-0/8	169
F06M2	F06M2	1-01 *	1	1	170
F06M2	F06S1	1-02 *			170
F06M2		1		1-0/8	170

DD11P.C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY = 0 DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

10-JUL-78

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

F06P2	F06P2	1-01 *		1		0-4/8	171
F06P2	F06S2	1-02 *					171
F06P2		1				0-4/8	171
F07D2	F07D2	1-01 *		2		1-5/8	172
F07D2	F07R2	1-02 *		1		0-4/8	172
F07D2	F07N1	1-03 *					172
F07D2		1				2-1/8	172
F07E1	F07E1	1-01 *		1		2-3/8	173
F07E1	F07V2	1-02 *					173
F07E1		1				2-3/8	173
F07L2	F07L2	1-01 *		1		1	174
F07L2	F07R1	1-02 *					174
F07L2		1				1-0/8	174
F07M2	F07M2	1-01 *		1		1	175
F07M2	F07S1	1-02 *					175
F07M2		1				1-0/8	175
F07P2	F07P2	1-01 *		1		0-4/8	176
F07P2	F07S2	1-02 *					176
F07P2		1				0-4/8	176
F08D2	F08D2	1-01 *		2		1-5/8	177
F08D2	F08R2	1-02 *		1		0-4/8	177
F08D2	F08N1	1-03 *					177
F08D2		1				2-1/8	177
F08E1	F08E1	1-01 *		1		2-3/8	178
F08E1	F08V2	1-02 *					178
F08E1		1				2-3/8	178
F08L2	F08L2	1-01 *		1		1	179
F08L2	F08P1	1-02 *					179
F08L2		1				1-0/8	179
F08M2	F08M2	1-01 *		1		1	180
F08M2	F08S1	1-02 *					180
F08M2		1				1-0/8	180
F08P2	F08P2	1-01 *		1		0-4/8	181
F08P2	F08S2	1-02 *					181
F08P2		1				0-4/8	181
F09D2	F09D2	1-01 *		2		1-5/8	182
F09D2	F09R2	1-02 *		1		0-4/8	182
F09D2	F09N1	1-03 *					182
F09D2		1				2-1/8	182
F09E1	F09E1	1-01 *		1		2-3/8	183
F09E1	F09V2	1-02 *					183
F09E1		1				2-3/8	183

DD11P,C RUN NAME	VGWRAP 35(102)-1 03-JUN-77										10-JUL-78	9117 NC LENGTH FLAG	PAGE 30 EXCEPTIONS	RUN NUMBER
A/P	PIN NAME	ORDER PIN	BAY = ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS			
F09L2	F09L2		1-01 *							1		1		184
F09L2	F09R1		1-02 *											184
F09L2			1									1-0/8		184
F09M2	F09M2		1-01 *							1		1		185
F09M2	F09S1		1-02 *											185
F09M2			1									1-0/8		185
F09P2	F09P2		1-01 *							1		0-4/8		186
F09P2	F09S2		1-02 *											186
F09P2			1									0-4/8		186
GND (01)	A01C2		1-01 *	P						1		0-7/8		187
GND (01)	A02C2		1-02 *	P						2		0-7/8		187
GND (01)	A03C2		1-03 *	P						1		0-7/8		187
GND (01)	A04C2		1-04 *	P						2		0-7/8		187
GND (01)	A05C2		1-05 *	P						1		0-7/8		187
GND (01)	A06C2		1-06 *	P						2		0-7/8		187
GND (01)	A07C2		1-07 *	P						1		0-7/8		187
GND (01)	A08C2		1-08 *	P						2		0-7/8		187
GND (01)	A09C2		1-09 *	P						1		2-1/8		187
GND (01)	A09T1		1-10 *	P						2		0-7/8		187
GND (01)	A08T1		1-11 *	P						1		0-7/8		187
GND (01)	A07T1		1-12 *	P						2		0-7/8		187
GND (01)	A06T1		1-13 *	P						1		0-7/8		187
GND (01)	A05T1		1-14 *	P						2		0-7/8		187
GND (01)	A04T1		1-15 *	P						1		0-7/8		187
GND (01)	A03T1		1-16 *	P						2		0-7/8		187
GND (01)	A02T1		1-17 *	P						1		0-7/8		187
GND (01)	A01T1		1-18 *	P						2		1-5/8		187
GND (01)	B01C2		1-19 *	P						1		0-7/8		187
GND (01)	B02C2		1-20 *	P						2		0-7/8		187
GND (01)	B03C2		1-21 *	P						1		0-7/8		187
GND (01)	B04C2		1-22 *	P						2		0-7/8		187
GND (01)	B05C2		1-23 *	P						1		0-7/8		187
GND (01)	B06C2		1-24 *	P						2		0-7/8		187
GND (01)	B07C2		1-25 *	P						1		0-7/8		187
GND (01)	B08C2		1-26 *	P						2		0-7/8		187
GND (01)	B09C2		1-27 *	P						1		2-1/8		187
GND (01)	B09T1		1-28 *	P						2		0-7/8		187
GND (01)	B08T1		1-29 *	P						1		0-7/8		187
GND (01)	B07T1		1-30 *	P						2		0-7/8		187
GND (01)	B06T1		1-31 *	P						1		0-7/8		187
GND (01)	B05T1		1-32 *	P						2		0-7/8		187
GND (01)	B04T1		1-33 *	P						1		0-7/8		187
GND (01)	B03T1		1-34 *	P						2		0-7/8		187
GND (01)	B02T1		1-35 *	P						1		0-7/8		187
GND (01)	B01T1		1-36 *	P						2		1-3/8		187
GND (01)	C01C2		1-37 *	P						1		0-7/8		187
GND (01)	C02C2		1-38 *	P						2		0-7/8		187
GND (01)	C03C2		1-39 *	P						1		0-7/8		187
GND (01)	C04C2		1-40 *	P						2		0-7/8		187
GND (01)	C05C2		1-41 *	P						1		0-7/8		187
GND (01)	C06C2		1-42 *	P						2		0-7/8		187
GND (01)	C07C2		1-43 *	P						1		0-7/8		187
GND (01)	C08C2		1-44 *	P						2		0-7/8		187

DD11P.C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER OPT

DRAW RV RG Y X Z
OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

GND (01)	C09C2	1-45 *	P		1	2-1/8	187
GND (01)	C09T1	1-46 *	P		2	0-7/8	187
GND (01)	C08T1	1-47 *	P		1	0-7/8	187
GND (01)	C07T1	1-48 *	P		2	0-7/8	187
GND (01)	C06T1	1-49 *	P		1	0-7/8	187
GND (01)	C05T1	1-50 *	P		2	0-7/8	187
GND (01)	C04T1	1-51 *	P		1	0-7/8	187
GND (01)	C03T1	1-52 *	P		2	0-7/8	187
GND (01)	C02T1	1-53 *	P		1	0-7/8	187
GND (01)	C01T1	1-54 *	P				187
GND (01)		1				51-3/8	187
GND (02)	D01C2	1-01 *	P		1	0-7/8	188
GND (02)	D02C2	1-02 *	P		2	0-7/8	188
GND (02)	D03C2	1-03 *	P		1	0-7/8	188
GND (02)	D04C2	1-04 *	P		2	0-7/8	188
GND (02)	D05C2	1-05 *	P		1	0-7/8	188
GND (02)	D06C2	1-06 *	P		2	0-7/8	188
GND (02)	D07C2	1-07 *	P		1	0-7/8	188
GND (02)	D08C2	1-08 *	P		2	0-7/8	188
GND (02)	D09C2	1-09 *	P		1	2-1/8	188
GND (02)	D09T1	1-10 *	P		2	0-7/8	188
GND (02)	D08T1	1-11 *	P		1	0-7/8	188
GND (02)	D07T1	1-12 *	P		2	0-7/8	188
GND (02)	D06T1	1-13 *	P		1	0-7/8	188
GND (02)	D05T1	1-14 *	P		2	0-7/8	188
GND (02)	D04T1	1-15 *	P		1	0-7/8	188
GND (02)	D03T1	1-16 *	P		2	0-7/8	188
GND (02)	D02T1	1-17 *	P		1	0-7/8	188
GND (02)	D01T1	1-18 *	P		2	1-3/8	188
GND (02)	E01C2	1-19 *	P		1	0-7/8	188
GND (02)	E02C2	1-20 *	P		2	0-7/8	188
GND (02)	E03C2	1-21 *	P		1	0-7/8	188
GND (02)	E04C2	1-22 *	P		2	0-7/8	188
GND (02)	E05C2	1-23 *	P		1	0-7/8	188
GND (02)	E06C2	1-24 *	P		2	0-7/8	188
GND (02)	E07C2	1-25 *	P		1	0-7/8	188
GND (02)	E08C2	1-26 *	P		2	0-7/8	188
GND (02)	E09C2	1-27 *	P		1	2-1/8	188
GND (02)	E09T1	1-28 *	P		2	0-7/8	188
GND (02)	E08T1	1-29 *	P		1	0-7/8	188
GND (02)	E07T1	1-30 *	P		2	0-7/8	188
GND (02)	E06T1	1-31 *	P		1	0-7/8	188
GND (02)	E05T1	1-32 *	P		2	0-7/8	188
GND (02)	E04T1	1-33 *	P		1	0-7/8	188
GND (02)	E03T1	1-34 *	P		2	0-7/8	188
GND (02)	E02T1	1-35 *	P		1	0-7/8	188
GND (02)	E01T1	1-36 *	P		2	1-5/8	188
GND (02)	F01C2	1-37 *	P		1	0-7/8	188
GND (02)	F02C2	1-38 *	P		2	0-7/8	188
GND (02)	F03C2	1-39 *	P		1	0-7/8	188
GND (02)	F04C2	1-40 *	P		2	0-7/8	188
GND (02)	F05C2	1-41 *	P		1	0-7/8	188
GND (02)	F06C2	1-42 *	P		2	0-7/8	188
GND (02)	F07C2	1-43 *	P		1	0-7/8	188
GND (02)	F08C2	1-44 *	P		2	0-7/8	188

RUN

100
100
100
100
100
100
100
100
100
100
100

[illegible]

190
190
190

191
191
191

DD11P,C RUN NAME	VGNRAP 35(102)=1 03-JUN-77 A/P PIN ORDER DAY = Q DRAW RV RG Y X Z REMARKS 10-JUL-78	9117 NC LENGTH PAGE 33 FLAG EXCEPTIONS RUN NUMBER
H BR OUT	D07J2 1-01 *	6-5/8 192
H BR OUT	F07P1 1-02 *	1 192
H BR OUT	F07U2 1-03 *	1 192
H BR OUT	1	7-5/8 192
H IN	D07H1 1-01 *	1 3-3/8 193
H IN	E07M1 1-02 *	1 193
H IN	1	3-3/8 193
H INT A	D07N1 1-01 *	1 6-3/8 194
H INT A	F07U1 1-02 *	1 194
H INT A	1	6-3/8 194
H INT B	C07J1 1-01 *	1 8-5/8 195
H INT B	F07K2 1-02 *	1 195
H INT B	1	8-5/8 195
H INT ENB A	D07M1 1-01 *	1 6-5/8 196
H INT ENB A	F07V1 1-02 *	1 196
H INT ENB A	1	6-5/8 196
H INT ENB B	C07L1 1-01 *	1 8-1/8 197
H INT ENB B	F07H2 1-02 *	1 197
H INT ENB B	1	8-1/8 197
H OUT HIGH	D07K1 1-01 *	1 3-3/8 198
H OUT HIGH	E07M2 1-02 *	1 198
H OUT HIGH	1	3-3/8 198
H OUT LOW	D07D1 1-01 *	1 3-7/8 199
H OUT LOW	E07N1 1-02 *	1 199
H OUT LOW	1	3-7/8 199
H SEL 0	D07F1 1-01 *	1 4-1/8 200
H SEL 0	E07S2 1-02 *	1 200
H SEL 0	1	4-1/8 200
H SEL 4	D07E1 1-01 *	1 4-3/8 201
H SEL 4	E07R2 1-02 *	1 201
H SEL 4	1	4-3/8 201
H SEL 6	D07C1 1-01 *	1 4-3/8 202
H SEL 6	E07S1 1-02 *	1 202
H SEL 6	1	4-3/8 202
H SER 2	D07J1 1-01 *	1 4-1/8 203
H SER 2	E07T2 1-02 *	1 203
H SER 2	1	4-1/8 203
H SSYN IN H	D07V1 1-01 *	1 0-7/8 204
H SSYN IN H	E07B1 1-02 *	1 204
H SSYN IN H	1	0-7/8 204

RUN
NUMBER

HALT GRANT		C01R1	1-01 *	P	2		0-7/8	205
HALT GRANT		C02R1	1-02 *	P	1		0-7/8	205
HALT GRANT		C03R1	1-03 *	P	2		0-7/8	205
HALT GRANT		C04R1	1-04 *	P	1		0-7/8	205
HALT GRANT		C05R1	1-05 *	P	2		0-7/8	205
HALT GRANT		C06R1	1-06 *	P	1		0-7/8	205
HALT GRANT		C07R1	1-07 *	P	2		0-7/8	205
HALT GRANT		C08R1	1-08 *	P	1		0-7/8	205
HALT GRANT		C09R1	1-09 *	P				205
HALT GRANT			1				7-0/8	205
HALT REQ		C01P1	1-01 *	P	2		0-7/8	206
HALT REQ		C02P1	1-02 *	P	1		0-7/8	206
HALT REQ		C03P1	1-03 *	P	2		0-7/8	206
HALT REQ		C04P1	1-04 *	P	1		0-7/8	206
HALT REQ		C05P1	1-05 *	P	2		0-7/8	206
HALT REQ		C06P1	1-06 *	P	1		0-7/8	206
HALT REQ		C07P1	1-07 *	P	2		0-7/8	206
HALT REQ		C08P1	1-08 *	P	1		0-7/8	206
HALT REQ		C09P1	1-09 *	P				206
HALT REQ			1				7-0/8	206
INIT L		A01A1	1-01 *	P	1		0-7/8	207
INIT L		A02A1	1-02 *	P	2		0-7/8	207
INIT L	A04A1	A03A1	1-03 *	P	1		0-7/8	207
INIT L		A04A1	1-04 *	H	2	TWPR	9-7/8	207
INIT L		D03L1	1-05 *	P	1		0-7/8	207
INIT L		D04L1	1-06 *	P	2		0-7/8	207
INIT L		D05L1	1-07 *	P	1		0-7/8	207
INIT L		D06L1	1-08 *	P	2		0-7/8	207
INIT L		D07L1	1-09 *	P	1		0-7/8	207
INIT L	D09L1	D08L1	1-10 *	P	2		0-7/8	207
INIT L		D09L1	1-11 *	H	1	TWPR	11-5/8	207
INIT L		A05A1	1-12 *	P	2		0-7/8	207
INIT L		A06A1	1-13 *	P	1		0-7/8	207
INIT L		A07A1	1-14 *	P	2		0-7/8	207
INIT L		A08A1	1-15 *	P	1		0-7/8	207
INIT L		A09A1	1-16 *	P				207
INIT L			1				32-7/8	207
INT SSYN		B02E1	1-01 *	P	2		0-7/8	208
INT SSYN		B03E1	1-02 *	P	1		0-7/8	208
INT SSYN		B04E1	1-03 *	P	2		0-7/8	208
INT SSYN		B05E1	1-04 *	P	1		0-7/8	208
INT SSYN		B06E1	1-05 *	P	2		0-7/8	208
INT SSYN		B07E1	1-06 *	P	1		0-7/8	208
INT SSYN		B08E1	1-07 *	P				208
INT SSYN			1				5-2/8	208

RUN
 NUMBER

INTR L	A01B1	1-01 *	P	2	0-7/8	209
INTR L	A02B1	1-02 *	P	1	0-7/8	209
INTR L	A03B1	1-03 *	P	2	0-7/8	209
INTR L	A04B1	1-04 *		1	15-3/8	209
INTR L	F03M1	1-05 *	P	2	0-7/8	209
INTR L	F04M1	1-06 *		1	0-7/8	209
INTR L	F05M1	1-07 *	P	2	0-7/8	209
INTR L	F06M1	1-08 *	P	1	0-7/8	209
INTR L	F07M1	1-09 *	P	2	0-7/8	209
INTR L	F08M1	1-10 *	P	1	0-7/8	209
INTR L	F09M1	1-11 *		2	16-5/8	209
INTR L	A05B1	1-12 *	P	1	0-7/8	209
INTR L	A06B1	1-13 *	P	2	0-7/8	209
INTR L	A07B1	1-14 *	P	1	0-7/8	209
INTR L	A08B1	1-15 *	P	2	0-7/8	209
INTR L	A09B1	1-16 *	P			209
INTR L		1			43-3/8	209
J A IN	D00H1	1-01 *		1	3-3/8	210
J A IN	E00M1	1-02 *				210
J A IN		1			3-3/8	210
J BG IN	D00U2	1-01 *		1	3-7/8	211
J BG IN	F00B1	1-02 *				211
J BG IN		1			3-7/8	211
J BG OUT	D00V2	1-01 *		1	3-7/8	212
J BG OUT	F00A1	1-02 *				212
J BG OUT		1			3-7/8	212
J BR OUT	D00J2	1-01 *		1	6-5/8	213
J BR OUT	F00P1	1-02 *		2	1	213
J BR OUT	F00U2	1-03 *				213
J BR OUT		1			7-5/8	213
J INT A	D00N1	1-01 *		1	6-3/8	214
J INT A	F00U1	1-02 *				214
J INT A		1			6-3/8	214
J INT B	C00J1	1-01 *		1	8-5/8	215
J INT B	F00K2	1-02 *				215
J INT B		1			8-5/8	215
J INT ENB A	D00M1	1-01 *		1	6-5/8	216
J INT ENB A	F00V1	1-02 *				216
J INT ENB A		1			6-5/8	216
J INT ENB B	C00L1	1-01 *		1	8-1/8	217
J INT ENB B	F00H2	1-02 *				217
J INT ENB B		1			8-1/8	217
J OUT HIGH	D00K1	1-11 *		1	3-3/8	218
J OUT HIGH	E00M2	1-02 *				218
J OUT HIGH		1			3-3/8	218

DD11P,C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER DAY = Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

10-JUL-78

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

J OUT LOW
J OUT LOW
J OUT LOW

D08D1
E08N1

1-01 *
1-02 *
1

1

3-7/8

3-7/8

219
219
219

J SEL 0
J SEL 0
J SEL 0

D08F1
E08S2

1-01 *
1-02 *
1

1

4-1/8

4-1/8

220
220
220

J SEL 4
J SEL 4
J SEL 4

D08E1
E08R2

1-01 *
1-02 *
1

1

4-3/8

4-3/8

221
221
221

J SEL 6
J SEL 6
J SEL 6

D08C1
E08S1

1-01 *
1-02 *
1

1

4-3/8

4-3/8

222
222
222

J SER 2
J SER 2
J SER 2

D08J1
E08T2

1-01 *
1-02 *
1

1

4-1/8

4-1/8

223
223
223

J SSYN IN H
J SSYN IN H
J SSYN IN H

D08V1
E08B1

1-01 *
1-02 *
1

1

0-7/8

0-7/8

224
224
224

K A IN
K A IN
K A IN

D09H1
E09M1

1-01 *
1-02 *
1

1

3-3/8

3-3/8

225
225
225

K BG IN
K BG IN
K BG IN

D09U2
F09B1

1-01 *
1-02 *
1

1

3-7/8

3-7/8

226
226
226

K BG OUT
K BG OUT
K BG OUT

D09V2
F09A1

1-01 *
1-02 *
1

1

3-7/8

3-7/8

227
227
227

K BR OUT
K BR OUT
K BR OUT
K BR OUT

D09J2
F09P1
F09U2

1-01 *
1-02 *
-03 *
1

1
2

6-5/8
1

7-5/8

228
228
228
228

K INT A
K INT A
K INT A

D09N1
F09U1

1-01 *
1-02 *
1

1

6-3/8

6-3/8

229
229
229

K INT B
K INT B
K INT B

C09J1
F09K2

1-01 *
1-02 *
1

1

8-5/8

8-5/8

230
230
230

K INT ENB A
K INT ENB A
K INT ENB A

D09M1
F09V1

1-01 *
1-02 *
1

1

6-5/8

6-5/8

231
231
231

K INT ENB B
K INT ENB B
~ INT ENB B

C09L1
F09H2

1-01 *
1-02 *
1

1

8-1/8

8-1/8

232
232
232

DD11P.C
RUN NAME

VGWRAP 35(102)=1 V3=JUN=77
A/P PIN ORDER DAY - 3 DRAW PV RG Y X Z
NAME PIN CHNFR OPT

14=101=78

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NO LENGTH EXCEPTIONS
L28

RUN
NUMBER

K OUT HIGH	D09M1	1=01 *	1	3=3/8	233
K OUT HIGH	E09M2	1=02 *			233
K OUT HIGH		1		4=3/8	233
K OUT LOW	D09N1	1=01 *	1	3=7/8	234
K OUT LOW	E09N1	1=02 *			234
K OUT LOW		1		3=7/8	234
K SEL 0	D09F1	1=01 *	1	4=1/8	235
K SEL 0	E09S2	1=02 *			235
K SEL 0		1		4=1/8	235
K SEL 4	D09E1	1=01 *	1	4=3/8	236
K SEL 4	E09R2	1=02 *			236
K SEL 4		1		4=3/8	236
K SEL 6	D09C1	1=01 *	1	4=3/8	237
K SEL 6	E09S1	1=02 *			237
K SEL 6		1		4=3/8	237
K SER 2	D09J1	1=01 *	1	4=1/8	238
K SER 2	E09T2	1=02 *			238
K SER 2		1		4=1/8	238
K SSYN IN H	D09V1	1=01 *	1	0=7/8	239
K SSYN IN H	E09B1	1=02 *			239
K SSYN IN H		1		0=7/8	239
K1=1 BERG 00(1) H	D01N1	1=01 *	1	0=5/8	240
K1=1 BERG 00(1) H	D02M1	1=02 *			240
K1=1 BERG 00(1) H		1		0=5/8	240
K1=1 BXREG 00(1) H	C02U1	1=01 *	1	7=7/8	241
K1=1 BXREG 00(1) H	F01K1	1=02 *			241
K1=1 BXREG 00(1) H		1		7=7/8	241
K1=1 BXREG 01(1) H	D02F1	1=01 *	1	5=5/8	242
K1=1 BXREG 01(1) H	F01A1	1=02 *			242
K1=1 BXREG 01(1) H		1		5=5/8	242
K1=1 CBIT(1) H	D01U2	1=01 *	1	0=6/8	243
K1=1 CBIT(1) H	D02V1	1=02 *			243
K1=1 CBIT(1) H		1		0=6/8	243
K1=1 NBIT(1) H	D01L1	1=01 *	1	3=7/8	244
K1=1 NBIT(1) H	E02P2	1=02 *			244
K1=1 NBIT(1) H		1		3=7/8	244
K1=1 SSMUX 00 H	E02B2	1=01 *	1	4=3/8	245
K1=1 SSMUX 00 H	F01F1	1=02 *			245
K1=1 SSMUX 00 H		1		4=3/8	245
K1=1 SSMUX 01 H	D01H1	1=01 *	1	3=1/8	246
K1=1 SSMUX 01 H	E02E1	1=02 *			246
K1=1 SSMUX 01 H		1		3=1/8	246

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q DRAW X Z
NAME PIN ORDER OPT

REMARKS

10-JUL-78

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

K1-1 SSMUX 02 H	E01B1	1-01 *	1	1-3/8	247
K1-1 SSMUX 02 H	E02D2	1-02 *			247
K1-1 SSMUX 02 H		1		1-3/8	247
K1-1 SSMUX 03 H	D01F1	1-01 *	1	3-3/8	248
K1-1 SSMUX 03 H	E02D1	1-02 *			248
K1-1 SSMUX 03 H		1		3-3/8	248
K1-1 VBIT(1) H	E01D1	1-01 *	1	2-5/8	249
K1-1 VBIT(1) H	E02U2	1-02 *			249
K1-1 VBIT(1) H		1		2-5/8	249
K1-1 ZBIT(1) H	E02V1	1-01 *	1	1-7/8	250
K1-1 ZBIT(1) H	F01F2	1-02 *			250
K1-1 ZBIT(1) H		1		1-7/8	250
K1-10 8-15=0 L	C01J2	1-01 *	1	9-3/8	251
K1-10 8-15=0 L	F02N2	1-02 *			251
K1-10 8-15=0 L		1		9-3/8	251
K1-10 ASSERT SSYN H	E01K2	1-01 *	1	3-1/8	252
K1-10 ASSERT SSYN H	F02F1	1-02 *			252
K1-10 ASSERT SSYN H		1		3-1/8	252
K1-10 CCN H	F01T2	1-01 *	1	1-7/8	253
K1-10 CCN H	F02J2	1-02 *			253
K1-10 CCN H		1		1-7/8	253
K1-10 CCZ H	E01L1	1-01 *	1	2-7/8	254
K1-10 CCZ H	F02B2	1-02 *			254
K1-10 CCZ H		1		2-7/8	254
K1-2 PSW 05(1) H	C01P2	1-01 *	1	6-5/8	255
K1-2 PSW 05(1) H	E02T2	1-02 *			255
K1-2 PSW 05(1) H		1		6-5/8	255
K1-2 PSW 06(1) H	C01M2	1-01 *	1	6-5/8	256
K1-2 PSW 06(1) H	E02U1	1-02 *			256
K1-2 PSW 06(1) H		1		6-5/8	256
K1-2 PSW 07(1) H	E02K2	1-01 *	1	3-3/8	257
K1-2 PSW 07(1) H	F01H2	1-02 *			257
K1-2 PSW 07(1) H		1		3-3/8	257
K1-2 SSMUX 04 H	C02D1	1-01 *	1	3-7/8	258
K1-2 SSMUX 04 H	D01H2	1-02 *			258
K1-2 SSMUX 04 H		1		3-7/8	258
K1-2 SSMUX 05 H	E01E1	1-01 *	1	1-3/8	259
K1-2 SSMUX 05 H	E02H2	1-02 *			259
K1-2 SSMUX 05 H		1		1-3/8	259
K1-2 SSMUX 06 H	C02C1	1-01 *	1	6-7/8	260
K1-2 SSMUX 06 H	E01K1	1-02 *			260
K1-2 SSMUX 06 H		1		6-7/8	260

DD11P,C RUN NAME	VGWRAP 35(102)=1 A/P PIN ORDER PIN	03-JUN-77 BAY = Q OKDEP	DRAW RV RG Y OPT	X	Z	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 39 EXCEPTIONS	RUN NUMBER
K1-2 SSMUX 07 H	C02E2	1-01 *			1			3-7/8		261
K1-2 SSMUX 07 H	D01J2	1-02 *								261
K1-2 SSMUX 07 H		1						3-7/8		261
K1-2 TBIT(1) H	D01F1	1-01 *			1			0-6/8		262
K1-2 TBIT(1) H	D02K1	1-02 *								262
K1-2 TBIT(1) H		1						0-6/8		262
K1-3 SSMUX 08 H	E01N2	1-01 *			1			0-4/8		263
K1-3 SSMUX 08 H	E02N1	1-02 *								263
K1-3 SSMUX 08 H		1						0-4/8		263
K1-3 SSMUX 09 H	C02J2	1-01 *			1			6-5/8		264
K1-3 SSMUX 09 H	E01M2	1-02 *								264
K1-3 SSMUX 09 H		1						6-5/8		264
K1-3 SSMUX 10 H	C02H2	1-01 *			1			5-1/8		265
K1-3 SSMUX 10 H	D01V1	1-02 *								265
K1-3 SSMUX 10 H		1						5-1/8		265
K1-3 SSMUX 11 H	C02F2	1-01 *			1			5-7/8		266
K1-3 SSMUX 11 H	E01A1	1-02 *								266
K1-3 SSMUX 11 H		1						5-7/8		266
K1-4 ALU COUT H	E01V1	1-01 *			1			2-7/8		267
K1-4 ALU COUT H	F02L2	1-02 *								267
K1-4 ALU COUT H		1						2-7/8		267
K1-4 PSW 15(1) L	D01J1	1-01 *			1			3-1/8		268
K1-4 PSW 15(1) L	E02E2	1-02 *								268
K1-4 PSW 15(1) L		1						3-1/8		268
K1-4 SP15(1) H	C02N1	1-01 *	H		1	TWP		8-1/8		269
K1-4 SP15(1) H	F01E1	1-02 *	X			TWP				269
K1-4 SP15(1) H		1						8-1/8		269
K1-4 SSMUX 12 H	C02J1	1-01 *			1			5-1/8		270
K1-4 SSMUX 12 H	E01B2	1-02 *								270
K1-4 SSMUX 12 H		1						5-1/8		270
K1-4 SSMUX 13 H	C02D2	1-01 *			1			5-3/8		271
K1-4 SSMUX 13 H	D01V1	1-02 *								271
K1-4 SSMUX 13 H		1						5-3/8		271
K1-4 SSMUX 14 H	C02H1	1-01 *			1			6-5/8		272
K1-4 SSMUX 14 H	E01P2	1-02 *								272
K1-4 SSMUX 14 H		1						6-5/8		272
K1-4 SSMUX 15 H	C01D1	1-01 *			1			1-3/8		273
K1-4 SSMUX 15 H	C02B2	1-02 *								273
K1-4 SSMUX 15 H		1						1-3/8		273
K1-5 ALLOW M8YN H	F01V2	1-01 *			1			1-1/		274
K1-5 ALLOW M8YN H	E02A1	1-02 *								274
K1-5 ALLOW M8YN H		1						1-1/1		274

RUN
 NUMBER

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DD11P.C
RUN NAME

VGWRAP 35(102)=1 03-JUN-77
A/P PIN ORDER BAY = Q DRAW RV RG Y X Z
NAME PIN ORDER OPT

REMARKS

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

K2=1 INT MSYN H	C01F2	1=01 *	1	2=7/8	289
K2=1 INT MSYN H	D02C1	1=02 *			289
K2=1 INT MSYN H		1		2=7/8	289
K2=1 KTE(1) H	C02M2	1=01 *	1	5=5/8	290
K2=1 KTE(1) H	E01J2	1=02 *			290
K2=1 KTE(1) H		1		5=5/8	290
K2=1 MSYN(1) L	C01H2	1=01 *	1	9=1/8	291
K2=1 MSYN(1) L	F02K2	1=02 *			291
K2=1 MSYN(1) L		1		9=1/8	291
K2=1 PE(1) H	C01T2	1=01 *	1	0=7/8	292
K2=1 PE(1) H	C02T2	1=02 *			292
K2=1 PE(1) H		1		0=7/8	292
K2=1 START TRAN L	C01N2	1=01 *	1	4=3/8	293
K2=1 START TRAN L	E02A1	1=02 *			293
K2=1 START TRAN L		1		4=3/8	293
K2=1 TRAN INH L	C01K2	1=01 *	1	7=7/8	294
K2=1 TRAN INH L	F02C1	1=02 *			294
K2=1 TRAN INH L		1		7=7/8	294
K2=1 UBUS C0(1) H	C01B2	1=01 *	1	4=1/8	295
K2=1 UBUS C0(1) H	D02H2	1=02 *			295
K2=1 UBUS C0(1) H		1		4=1/8	295
K2=1 UBUS C1(1) H	C01C1	1=01 *	1	4=3/8	296
K2=1 UBUS C1(1) H	D02J1	1=02 *			296
K2=1 UBUS C1(1) H		1		4=3/8	296
K2=2 RG INH L	F01R2	1=01 *	1	2=1/8	297
K2=2 RG INH L	F02B1	1=02 *			297
K2=2 RG INH L		1		2=1/8	297
K2=2 PROC INIT L	E01U1	1=01 *	1	1=7/8	298
K2=2 PROC INIT L	F02D2	1=02 *			298
K2=2 PROC INIT L		1		1=7/8	298
K2=2 RCD INIT L	C01E2	1=01 *	1	8=7/8	299
K2=2 RCD INIT L	F02E2	1=02 *			299
K2=2 RCD INIT L		1		8=7/8	299
K2=2 SACK RET(1) H	C01R2	1=01 *	1	5=3/8	300
K2=2 SACK RET(1) H	E02L1	1=02 *			300
K2=2 SACK RET(1) H		1		5=3/8	300
K2=3 C2 H	C02L1	1=01 *	1	2=3/8	301
K2=3 C2 H	D01B2	1=02 *			301
K2=3 C2 H		1		2=3/8	301
K2=3 C3 H	C01V1	1=01 *	1	0=6/8	302
K2=3 C3 H	C02S1	1=02 *			302
K2=3 C3 H		1		0=6/8	302

**RUN
NUMBER**

KEY	NAME	ADDRESS	DATA	VALUE	UNIT	TIME	STATUS
K2=1	C4 H	C01U1	1=01 *	1		1-4/8	303
K2=3	C4 H	C02H2	1=02 *				303
K2=3	C4 H		1			1-4/8	303
K2=3	INT VECTOR L	D01A1	1=01 *	1		7-1/8	304
K2=3	INT VECTOR L	F02U1	1=02 *				304
K2=3	INT VECTOR L		1			7-1/8	304
K2=3	INTR H	C01V2	1=01 *	1		7-1/8	305
K2=3	INTR H	F02H1	1=02 *				305
K2=3	INTR H		1			7-1/8	305
K2=4	SP WRITE L	E02F1	1=01 *	1		4-7/8	306
K2=4	SP WRITE L	F01V2	1=02 *				306
K2=4	SP WRITE L		1			4-7/8	306
K2=4	SPA 00 H	C01D2	1=01 * H	1	TWP	3-7/8	307
K2=4	SPA 00 H	D02F2	1=02 * X		TWP		307
K2=4	SPA 00 H		1			3-7/8	307
K2=4	SPA 01 H	C01N1	1=01 * H	1	TWP	2-5/8	308
K2=4	SPA 01 H	D02B2	1=02 * X		TWP		308
K2=4	SPA 01 H		1			2-5/8	308
K2=4	SPA 02 H	C01S1	1=01 * H	1	TWP	3-1/8	309
K2=4	SPA 02 H	D02L1	1=02 * X		TWP		309
K2=4	SPA 02 H		1			3-1/8	309
K2=4	SPA 03 H	C01U2	1=01 * H	1	TWP	2	310
K2=4	SPA 03 H	D02D2	1=02 * X		TWP		310
K2=4	SPA 03 H		1			2-0/8	310
K2=5	BYTE L	E01H2	1=01 *	1		3-7/8	311
K2=5	BYTE L	F02I1	1=02 *				311
K2=5	BYTE L		1			3-7/8	311
K2=5	CC CODE 00 H	F01S1	1=01 *	1		1-4/8	312
K2=5	CC CODE 00 H	F02J1	1=02 *				312
K2=5	CC CODE 00 H		1			1-4/8	312
K2=5	CC CODE 01 H	E01U2	1=01 *	1		2-3/8	313
K2=5	CC CODE 01 H	F02H2	1=02 *				313
K2=5	CC CODE 01 H		1			2-3/8	313
K2=5	CC CODE 02 H	F01C1	1=01 *	1		4-7/8	314
K2=5	CC CODE 02 H	F02M2	1=02 *				314
K2=5	CC CODE 02 H		1			4-7/8	314
K2=5	LOAD 1R H	E01D2	1=01 *	1		4-5/8	315
K2=5	LOAD 1R H	F02P2	1=02 *				315
K2=5	LOAD 1R H		1			4-5/8	315
K2=5	ROT CBIT(1) H	F01R1	1=01 *	1		1-1/8	316
K2=5	ROT CBIT(1) H	F02K1	1=02 *				316
K2=5	ROT CBIT(1) H		1			1-1/8	316

DD11P,C RUN NAME	VGWRAP 35(102)-1 03-JUN-77 A/P PIN ORDER PIN BAY = Q DRAW RV RG Y X Z NAME PIN ORDER OPT	REMARKS	10-JUL-78	9117 NC LENGTH FLAG	PAGE 43 EXCEPTIONS	RUN NUMBER
K2-5 SERIAL SHIFT H	E01F2 1-01 *			4-1/8		317
K2-5 SERIAL SHIFT H	F02N1 1-02 *					317
K2-5 SERIAL SHIFT H	1			4-1/8		317
K2-6 DISAB LOAD PSW H	D01C1 1-01 *			7-7/8		318
K2-6 DISAB LOAD PSW H	F02S2 1-02 *					318
K2-6 DISAB LOAD PSW H	1			7-7/8		318
K2-7 LOAD CC L	F01N1 1-01 *			1-4/8		319
K2-7 LOAD CC L	F02F2 1-02 *					319
K2-7 LOAD CC L	1			1-4/8		319
K2-7 LOAD PSW L	E02N2 1-01 *			3-1/8		320
K2-7 LOAD PSW L	F01J2 1-02 *					320
K2-7 LOAD PSW L	1			3-1/8		320
K2-8 ALU CIN L	C02R2 1-01 *			7-7/8		321
K2-8 ALU CIN L	F01E2 1-02 *					321
K2-8 ALU CIN L	1			7-7/8		321
K2-8 ALU MODE H	C02K2 1-01 *			8-7/8		322
K2-8 ALU MODE H	F01J1 1-02 *					322
K2-8 ALU MODE H	1			8-7/8		322
K2-8 ALU S0 H	C02V2 1-01 *			7-1/8		323
K2-8 ALU S0 H	F01B1 1-02 *					323
K2-8 ALU S0 H	1			7-1/8		323
K2-8 ALU S1 H	D02D1 1-01 *			3-7/8		324
K2-8 ALU S1 H	E01H1 1-02 *					324
K2-8 ALU S1 H	1			3-7/8		324
K2-8 ALU S2 H	E01F1 1-01 *			8-6/8		325
K2-8 ALU S2 H	E02H1 1-02 *					325
K2-8 ALU S2 H	1			8-6/8		325
K2-8 ALU S3 H	E01R2 1-01 *			1-7/8		326
K2-8 ALU S3 H	E02F2 1-02 *					326
K2-8 ALU S3 H	1			1-7/8		326
K2-8 AUX CONTROL(1) L	D01D1 1-01 *			4-5/8		327
K2-8 AUX CONTROL(1) L	E02R1 1-02 *					327
K2-8 AUX CONTROL(1) L	1			4-5/8		327
K2-8 BLEG 00 H	C02V1 1-01 *			7-1/8		328
K2-8 BLEG 00 H	F01C1 1-02 *					328
K2-8 BLEG 00 H	1			7-1/8		328
K2-8 BLEG 01 H	D02N1 1-01 *			5-7/8		329
K2-8 BLEG 01 H	F01M2 1-02 *					329
K2-8 BLEG 01 H	1			5-7/8		329
K2-8 BMODE 00 L	D02E1 1-01 *			6-3/8		330
K2-8 BMODE 00 L	F01L2 1-02 *					330
K2-8 BMODE 00 L	1			6-3/8		330

**RUN
NUMBER**

K2=0 BMODE 01 L	C02U2	1-01 *	1	8-7/8	331
K2=0 BMODE 01 L	F01U2	1-02 *			331
K2=0 BMODE 01 L		1		8-7/8	331
K2=0 BXMODE 00 L	E01S1	1-01 *	1	1-3/8	332
K2=0 BXMODE 00 L	E02R2	1-02 *			332
K2=0 BXMODE 00 L		1		1-3/8	332
K2=0 BXMODE 01 L	E02S2	1-01 *	1	3-1/8	333
K2=0 BXMODE 01 L	F01L1	1-02 *			333
K2=0 BXMODE 01 L		1		3-1/8	333
K2=0 DIS UPR BTWRT H	E01P1	1-01 *	1	3-7/8	334
K2=0 DIS UPR BTWRT H	F02R1	1-02 *			334
K2=0 DIS UPR BTWRT H		1		3-7/8	334
K2=0 DISABLE MSYN+1 L	C02S2	1-01 *	1	5-7/8	335
K2=0 DISABLE MSYN+1 L	E01M1	1-02 *			335
K2=0 DISABLE MSYN+1 L		1		5-7/8	335
K2=0 ENAB MAINT(1) H	F01S2	1-01 *	1	1	336
K2=0 ENAB MAINT(1) H	F02U2	1-02 *			336
K2=0 ENAB MAINT(1) H		1		1-0/8	336
K2=0 ENAB OVX L	E01N1	1-01 *	1	1-1/8	337
K2=0 ENAB OVX L	E02J1	1-02 *			337
K2=0 ENAB OVX L		1		1-1/8	337
K2=0 LOAD BA(1) H	F01D1	1-01 *	1	0-7/8	338
K2=0 LOAD BA(1) H	F02D1	1-02 *			338
K2=0 LOAD BA(1) H		1		0-7/8	338
K2=0 LONG CYCLE(1) L	E02V2	1-01 *	1	3-7/8	339
K2=0 LONG CYCLE(1) L	F01V1	1-02 *			339
K2=0 LONG CYCLE(1) L		1		3-7/8	339
K2=0 MODE 01 H	E02P1	1-01 *	1	3-1/8	340
K2=0 MODE 01 H	F01N2	1-02 *			340
K2=0 MODE 01 H		1		3-1/8	340
K2=0 SEX H	C02L2	1-01 *	1	6-1/8	341
K2=0 SEX H	E01J1	1-02 *			341
K2=0 SEX H		1		6-1/8	341
K2=0 SHIFT MUX 00 L	F01K2	1-01 *	1	0-4/8	342
K2=0 SHIFT MUX 00 L	F02M1	1-02 *			342
K2=0 SHIFT MUX 00 L		1		0-4/8	342
K2=0 SHIFT MUX 01 L	F01U1	1-01 *	1	1-1/8	343
K2=0 SHIFT MUX 01 L	F02P1	1-02 *			343
K2=0 SHIFT MUX 01 L		1		1-1/8	343
K2=0 SWAP H	C02P2	1-01 *	1	6-3/8	344
K2=0 SWAP H	E01S2	1-02 *			344
K2=0 SWAP H		1		6-3/8	344

**RUN
NUMBER**

NAME	MODE	UNIT	TYPE	NO.	DATE	TIME	STATUS	REMARKS
K2-9	AMUX	80(1)	L	F01D2	1-01	*		2-3/8 345
K2-9	AMUX	80(1)	L	F02V1	1-02	*		345
K2-9	AMUX	80(1)	L		1			2-3/8 345
K2-9	AMUX	81(1)	L	F01H1	1-01	*		1-6/8 346
K2-9	AMUX	81(1)	L	F02R2	1-02	*		346
K2-9	AMUX	81(1)	L		1			1-6/8 346
K2-9	FORC	KERNEL(1)	H	C01L1	1-01	*		5-7/8 347
K2-9	FORC	KERNEL(1)	H	E02K1	1-02	*		347
K2-9	FORC	KERNEL(1)	H		1			5-7/8 347
K2-9	PREV	MODE(1)	L	C01S2	1-01	*		2-7/8 348
K2-9	PREV	MODE(1)	L	D02J2	1-02	*		348
K2-9	PREV	MODE(1)	L		1			2-7/8 348
LTC				C03D1	1-01	*	P	0-7/8 349
LTC				C04D1	1-02	*	P	0-7/8 349
LTC				C05D1	1-03	*	P	0-7/8 349
LTC				C06D1	1-04	*	P	0-7/8 349
LTC				C07D1	1-05	*	P	0-7/8 349
LTC				C08D1	1-06	*	P	0-7/8 349
LTC				C09D1	1-07	*	P	349
LTC					1			5-2/8 349
MSYN	L	(1)		B01V1	1-01	*		0-7/8 350
MSYN	L	(1)		B02V1	1-02	*		0-7/8 350
MSYN	L	(1)		B03V1	1-03	*		0-7/8 350
MSYN	L	(1)		B04V1	1-04	*	H	7-1/8 350
MSYN	L	(1)		E03E1	1-05	*	P	0-7/8 350
MSYN	L	(1)		E04E1	1-06	*		0-7/8 350
MSYN	L	(1)		E05E1	1-07	*	P	0-7/8 350
MSYN	L	(1)		E06E1	1-08	*	P	0-7/8 350
MSYN	L	(1)		E07E1	1-09	*	P	0-7/8 350
MSYN	L	(1)		E08E1	1-10	*	P	350
MSYN	L	(1)			1			14-1/8 350
MSYN	L	(2)		E09E1	1-01	*	H	0-3/8 351
MSYN	L	(2)		B05V1	1-02	*		0-7/8 351
MSYN	L	(2)		B06V1	1-03	*		0-7/8 351
MSYN	L	(2)		B07V1	1-04	*		0-7/8 351
MSYN	L	(2)		B08V1	1-05	*		0-7/8 351
MSYN	L	(2)		B09V1	1-06	*		351
MSYN	L	(2)			1			11-7/8 351
MSYN	L	JMP		E08E1	1-01	*	P	0-7/8 352
MSYN	L	JMP		E09E1	1-02	*		352
MSYN	L	JMP						0-7/8 352

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RUN NAME

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A/P	PIN NAME	ORDER PIN	BAY * ORDER	Q	DRAW OPT	PV PG Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
NPG L	A01U1		1-01 *					1		3-5/8		353
NPG L	C01A1		1-02 *					2		0-2/8		353
NPG L	C01B1		1-03 *	P				2		0-5/8		353
NPG L	C02A1		1-04 *					1		0-2/8		353
NPG L	C02B1		1-05 *	P				2		0-5/8		353
NPG L	C03A1		1-06 *					1		0-2/8		353
NPG L	C03B1		1-07 *	P				2		0-5/8		353
NPG L	C04A1		1-08 *					1		0-2/8		353
NPG L	C04B1		1-09 *	P				2		0-5/8		353
NPG L	C05A1		1-10 *					1		0-2/8		353
NPG L	C05B1		1-11 *	P				2		0-5/8		353
NPG L	C06A1		1-12 *					1		0-2/8		353
NPG L	C06B1		1-13 *	P				2		0-5/8		353
NPG L	C07A1		1-14 *					1		0-2/8		353
NPG L	C07B1		1-15 *	P				2		0-5/8		353
NPG L	C08A1		1-16 *					1		0-2/8		353
NPG L	C08B1		1-17 *	P				2		0-5/8		353
NPG L	C09A1		1-18 *					1		0-2/8		353
NPG L	C09B1		1-19 *					2		3-7/8		353
NPG L	A09U1		1-20 *									353
NPG L			1							14-6/8		353
NPR L	A0182		1-01 *					2		0-7/8		354
NPR L	A0282		1-02 *					1		0-7/8		354
NPR L	A0382	A0482	1-03 *					2		0-7/8		354
NPR L	A0482		1-04 *	H				1	TWPR	13-3/8		354
NPR L	F03J1		1-05 *	P				2		0-7/8		354
NPR L	F04J1		1-06 *	P				1		0-7/8		354
NPR L	F05J1		1-07 *	P				2		0-7/8		354
NPR L	F06J1		1-08 *	P				1		0-7/8		354
NPR L	F07J1		1-09 *	P				2		0-7/8		354
NPR L	F08J1	F09J1	1-10 *	P				1		0-7/8		354
NPR L	F09J1		1-11 *	H				2	TWPR	14-5/8		354
NPR L	A0582		1-12 *					1		0-7/8		354
NPR L	A0682		1-13 *					2		0-7/8		354
NPR L	A0782		1-14 *					1		0-7/8		354
NPR L	A0882		1-15 *					2		0-7/8		354
NPR L	A0982		1-16 *									354
NPR L			1							39-3/8		354

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A/P PIN ORDER BAY - Q
NAME PIN ORDER OPT

DRAW RV RG Y X Z
OPT

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FLAG

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PA L	A01M1	1-01 *	P		1		0-7/8	355
PA L	A02M1	1-02 *	P		2		0-7/8	355
PA L	A03M1	1-03 *	P		1		0-7/8	355
PA L	A04M1	1-04 *			2		5-1/8	355
PA L	C03C1	1-05 *			1		0-7/8	355
PA L	C04C1	1-06 *			2		0-7/8	355
PA L	C05C1	1-07 *			1		0-7/8	355
PA L	C06C1	1-08 *			2		0-7/8	355
PA L	C07C1	1-09 *			1		0-7/8	355
PA L	C08C1	1-10 *			2		0-7/8	355
PA L	C09C1	1-11 *			1		6-5/8	355
PA L	A05M1	1-12 *	P		2		0-7/8	355
PA L	A06M1	1-13 *	P		1		0-7/8	355
PA L	A07M1	1-14 *	P		2		0-7/8	355
PA L	A08M1	1-15 *	P		1		0-7/8	355
PA L	A09M1	1-16 *	P					355
PA L		1					23-1/8	355
PAR DET	B02E2	1-01 *			2		0-7/8	356
PAR DET	B03E2	1-02 *			1		0-7/8	356
PAR DET	B04E2	1-03 *			2		0-7/8	356
PAR DET	B05E2	1-04 *			1		0-7/8	356
PAR DET	B06E2	1-05 *			2		0-7/8	356
PAR DET	B07E2	1-06 *			1		0-7/8	356
PAR DET	B08E2	1-07 *						356
PAR DET		1					5-2/8	356
PAR P0	A02P1	1-01 *	P		2		0-7/8	357
PAR P0	A03P1	1-02 *	P		1		0-7/8	357
PAR P0	A04P1	1-03 *	P		2		0-7/8	357
PAR P0	A05P1	1-04 *	P		1		0-7/8	357
PAR P0	A06P1	1-05 *	P		2		0-7/8	357
PAR P0	A07P1	1-06 *	P		1		0-7/8	357
PAR P0	A08P1	1-07 *	P					357
PAR P0		1					5-2/8	357
PAR P1	A02N1	1-01 *	P		2		0-7/8	358
PAR P1	A03N1	1-02 *	P		1		0-7/8	358
PAR P1	A04N1	1-03 *	P		2		0-7/8	358
PAR P1	A05N1	1-04 *	P		1		0-7/8	358
PAR P1	A06N1	1-05 *	P		2		0-7/8	358
PAR P1	A07N1	1-06 *	P		1		0-7/8	358
PAR P1	A08N1	1-07 *	P					358
PAR P1		1					5-2/8	358

DD11P,C
RUN NAME

VGWRAP 35(102)-1 03-JUN-77
A/P PIN ORDER BAY - Q
NAME PIN ORDER OPT

DRAW RV RG Y X Z
OPT

REMARKS

10-JUL-78

9117 PAGE 48
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

PB L	A01N2	1-01 *	P		2		0-7/8	359
PB L	A02N2	1-02 *	P		1		0-7/8	359
PB L	A03N2	1-03 *	P		2		0-7/8	359
PB L	A04N2	1-04 *			1		6-7/8	359
PB L	C03S1	1-05 *	P		2		0-7/8	359
PB L	C04S1	1-06 *	P		1		0-7/8	359
PB L	C05S1	1-07 *	P		2		0-7/8	359
PB L	C06S1	1-08 *	P		1		0-7/8	359
PB L	C07S1	1-09 *	P		2		0-7/8	359
PB L	C08S1	1-10 *	P		1		0-7/8	359
PB L	C09S1	1-11 *			2		7-5/8	359
PB L	A05N2	1-12 *	P		1		0-7/8	359
PB L	A06N2	1-13 *	P		2		0-7/8	359
PB L	A07N2	1-14 *	P		1		0-7/8	359
PB L	A08N2	1-15 *			2		0-7/8	359
PB L	A09N2	1-16 *						359
PB L		1					25-7/8	359
RESERVED M BUS	C01E1	1-01 *			1		3-7/8	360
RESERVED M BUS	B02A1	1-02 *	P		2		0-7/8	360
RESERVED M BUS	B03A1	1-03 *	P		1		0-7/8	360
RESERVED M BUS	B04A1	1-04 *	P		2		0-7/8	360
RESERVED M BUS	B05A1	1-05 *	P		1		0-7/8	360
RESERVED M BUS	B06A1	1-06 *	P		2		0-7/8	360
RESERVED M BUS	B07A1	1-07 *	P		1		0-7/8	360
RESERVED M BUS	B08A1	1-08 *	P					360
RESERVED M BUS		1					9-1/8	360
SACK L	A01R2	1-01 *	P		2		0-7/8	361
SACK L	A02R2	1-02 *	P		1		0-7/8	361
SACK L	A03R2	1-03 *	P		2		0-7/8	361
SACK L	A04R2	1-04 *			1		14-3/8	361
SACK L	F03T2	1-05 *	P		2		0-7/8	361
SACK L	F04T2	1-06 *	H		1	2' TWP	0-7/8	361
SACK L	F05T2	1-07 *	P		2		0-7/8	361
SACK L	F06T2	1-08 *	P		1		0-7/8	361
SACK L	F07T2	1-09 *	P		2		0-7/8	361
SACK L	F08T2	1-10 *	P		1		0-7/8	361
SACK L	F09T2	1-11 *			2		15-7/8	361
SACK L	A05R2	1-12 *	P		1		0-7/8	361
SACK L	A06R2	1-13 *	P		2		0-7/8	361
SACK L	A07R2	1-14 *	P		1		0-7/8	361
SACK L	A08R2	1-15 *	P		2		0-7/8	361
SACK L	A09R2	1-16 *	P					361
SACK L		1					41-5/8	361
SSYN L (1)	B01U1	1-01 *	P		1		0-7/8	362
SSYN L (1)	B02U1	1-02 *	P		2		0-7/8	362
SSYN L (1)	B03U1	1-03 *	P		1		0-7/8	362
SSYN L (1)	B04U1	1-04 *	H		2	TWP	7-3/8	362
SSYN L (1)	E03J1	1-05 *	P		1		0-7/8	362
SSYN L (1)	E04J1	1-06 *			2		2-5/8	362
SSYN L (1)	F04C1	1-07 *	P		2		0-7/8	362
SSYN L (1)	F03C1	1-08 *	P					362
SSYN L (1)		1					14-3/8	362

**RUN
NUMBER**

SSYN L (2)	B09U1	1-01 *	P	1		0-7/8	363
SSYN L (2)	B00U1	1-02 *	P	1		0-7/8	363
SSYN L (2)	B07U1	1-03 *	P	2		0-7/8	363
SSYN L (2)	B06U1	1-04 *	P	1		0-7/8	363
SSYN L (2)	B05U1	1-05 *	H	2	TWP	9-1/8	363
SSYN L (2)	E09J1	1-06 *	P	1		0-7/8	363
SSYN L (2)	E08J1	1-07 *	P	2		0-7/8	363
SSYN L (2)	E07J1	1-08 *	P	1		0-7/8	363
SSYN L (2)	E06J1	1-09 *	P	2		0-7/8	363
SSYN L (2)	E05J1	1-10 *		1		2-5/8	363
SSYN L (2)	F05C1	1-11 *	P	1		0-7/8	363
SSYN L (2)	F06C1	1-12 *	P	2		0-7/8	363
SSYN L (2)	F07C1	1-13 *	P	1		0-7/8	363
SSYN L (2)	F08C1	1-14 *	P	2		0-7/8	363
SSYN L (2)	F09C1	1-15 *	P				363
SSYN L (2)		1				22-2/8	363
SSYN L JMP	F05C1	1-01 *	H	1	2' TWP	0-7/8	364
SSYN L JMP	F04C1	1-02 *					364
SSYN L JMP		1				0-7/8	364

FIELD MAINTENANCE PRINT SET

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FIELD MAINT. PRINT SET BALL-L	B-TC-BALL-L-1
BOX 5.25 BALL-L	E-UA-BALL-L-0
BOX 5.25 BALL-L(PARTS LIST)	A-PL-BALL-L-0
PRINT SET H777-B	MP00016
CONSOLE ASSY. EXPANSION BOX	D-AD-7012540-0-0
INSTALLATION AID	E-AD-7012588-0-0
DRAWING DIRECTORY BALL-L	B-DD-BALL-L
SHIPPING LIST	A-PL-BALL-L-4
PRINT SET H777-VOL 2	MP 00309

[illegible]

BAII-L

Field Maintenance Print Set

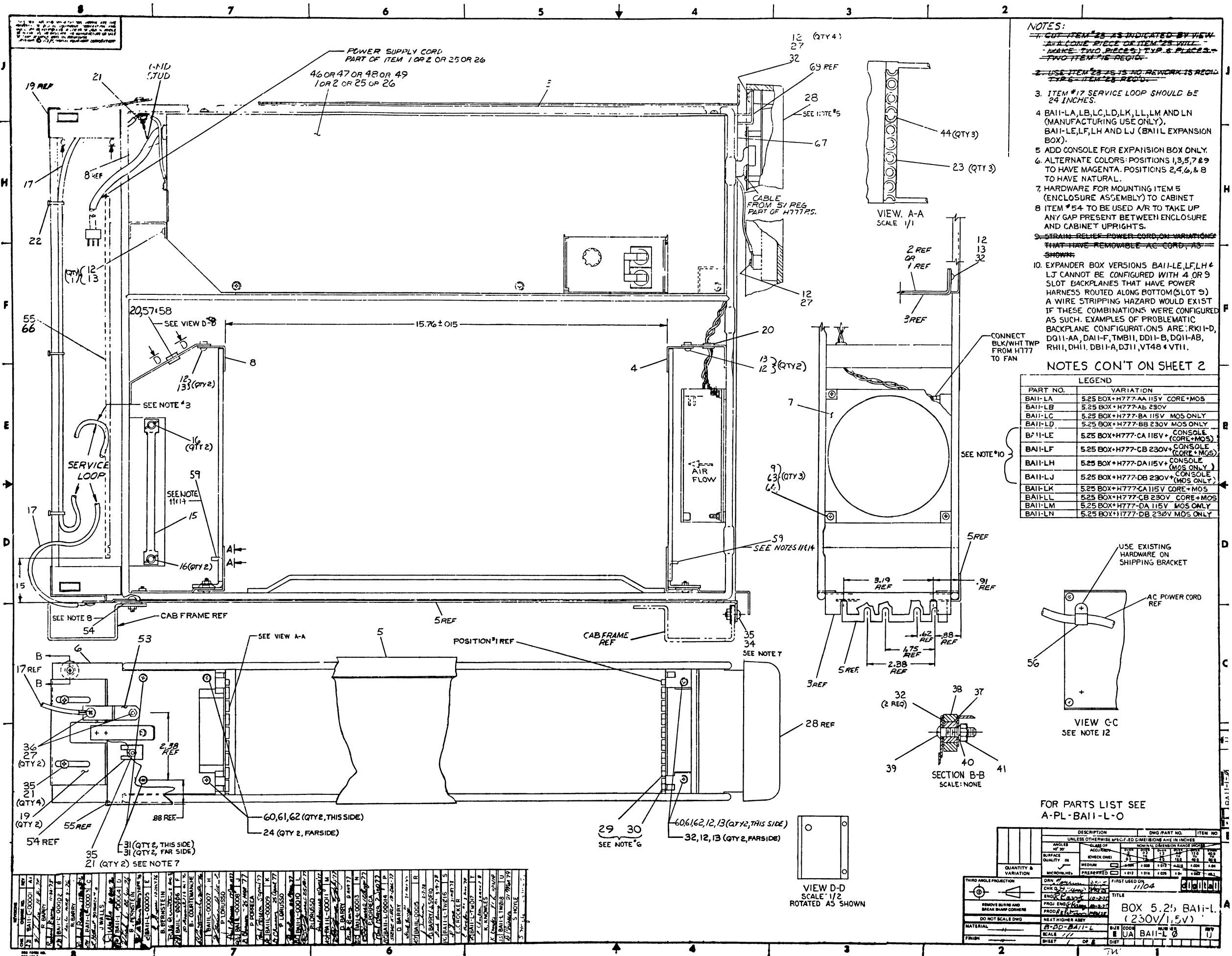
Digital Equipment Corporation

PRINT SET ORDER NO.
MP00018

EN 0112 16 N075 (J2)

REVISIONS			USED ON OPTION/MODEL		DRN.	DATE	TITLE											
DATE	CHG. NO.	REV.			11/04		D. HEALY	9/30/75	FIELD MAINTENANCE PRINT SET Ball-L									
APR-76	BA11-L-4	A			11/34		CHK'D	DATE										
OCT-76	BA11-L-6	B					D. HEALY	9/30/75	SIZE	CODE	NUMBER				REV			
MAR-77	BA11-L-8	C					PROJ. ENG.	DATE	B	TC	Ball-L-1				F			
APR-77	BA11-L-9	D					R. Barry	10-22-75										
JUL-77	BA11-L-11	E					FIELD SERV.	DATE										
DEC-77	BA11-L-14	F																
					SHEET 1 OF 1													

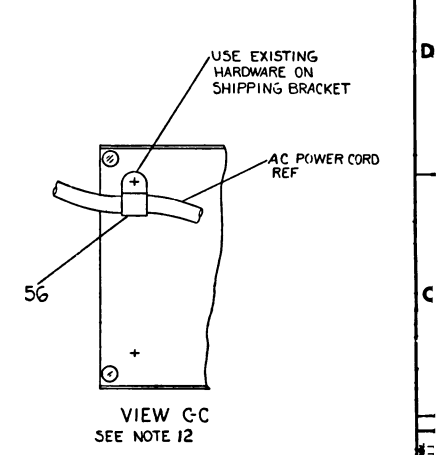
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- NOTES:**
- 1. CUT ITEM 23 AS INDICATED BY VIEW A-A. ONE PIECE OF ITEM 23 WILL MAKE TWO PLACES. TWO ITEM 16 REQUIRED.
 - 2. USE ITEM 23 AS IS. NO REWORK IS REQUIRED. ITEM 23 REQUIRED.
 - 3. ITEM #17 SERVICE LOOP SHOULD BE 24 INCHES.
 - 4. BAIL-LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LM AND LN (MANUFACTURING USE ONLY). BAIL-LE, LF, LH AND LJ (BAIL EXPANSION BOX).
 - 5. ADD CONSOLE FOR EXPANSION BOX ONLY.
 - 6. ALTERNATE COLORS: POSITIONS 1, 3, 5, 7 & 9 TO HAVE MAGENTA. POSITIONS 2, 4, 6, & 8 TO HAVE NATURAL.
 - 7. HARDWARE FOR MOUNTING ITEM 5 (ENCLOSURE ASSEMBLY) TO CABINET.
 - 8. ITEM #54 TO BE USED A/R TO TAKE UP ANY GAP PRESENT BETWEEN ENCLOSURE AND CABINET UPRIGHTS.
 - 9. STRAIN RELIEF POWER CORD ON VARIATIONS THAT HAVE REMOVABLE AC CORD, AS SHOWN.
 - 10. EXPANDER BOX VERSIONS BAIL-LE, LF, LH & LJ CANNOT BE CONFIGURED WITH 4 OR 9 SLOT BACKPLANES THAT HAVE POWER HARNESS ROUTED ALONG BOTTOM (SLOT 9). A WIRE STRIPPING HAZARD WOULD EXIST IF THESE COMBINATIONS WERE CONFIGURED AS SUCH. EXAMPLES OF PROBLEMATIC BACKPLANE CONFIGURATIONS ARE: RKII-D, DQII-AA, DAII-F, TMBII, DDII-B, DQII-AB, RHII, DHII, DBII-A, DJII, VT48 & VTII.

NOTES CONT'N ON SHEET 2

PART NO.	VARIATION
BAIL-LA	5.25 BOX+H777-AA 115V CORE+MOS
BAIL-LB	5.25 BOX+H777-AB 230V
BAIL-LC	5.25 BOX+H777-BA 115V MOS ONLY
BAIL-LD	5.25 BOX+H777-BB 230V MOS ONLY
BAIL-LE	5.25 BOX+H777-CA 115V+CONSOLE (CORE+MOS)
BAIL-LF	5.25 BOX+H777-CB 230V+CONSOLE (CORE+MOS)
BAIL-LH	5.25 BOX+H777-DA 115V+CONSOLE (MOS ONLY)
BAIL-LJ	5.25 BOX+H777-DB 230V+CONSOLE (MOS ONLY)
BAIL-LK	5.25 BOX+H777-CA 115V CORE+MOS
BAIL-LL	5.25 BOX+H777-CB 230V CORE+MOS
BAIL-LM	5.25 BOX+H777-DA 115V MOS ONLY
BAIL-LN	5.25 BOX+H777-DB 230V MOS ONLY

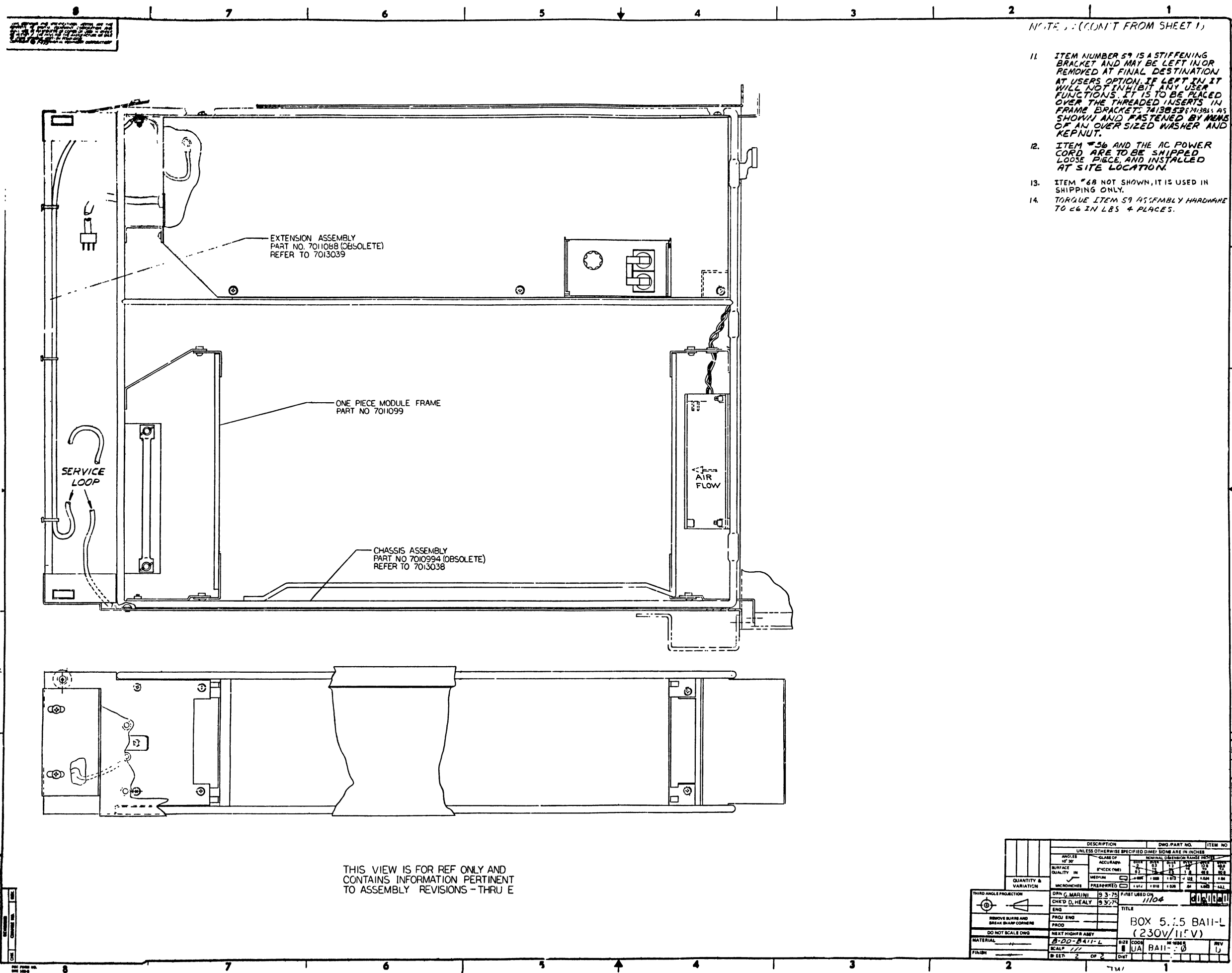


FOR PARTS LIST SEE A-PL-BAIL-L-O

DESCRIPTION	DWG PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		
ANGLE 10° 30'		
SURFACE QUALITY		
MATERIAL		
FINISH		

SECTION B-B
SCALE: NONE

ITEM NO.	DESCRIPTION	QTY	UNIT
1	BAIL-00001	1	EA
2	BAIL-00002	1	EA
3	BAIL-00003	1	EA
4	BAIL-00004	1	EA
5	BAIL-00005	1	EA
6	BAIL-00006	1	EA
7	BAIL-00007	1	EA
8	BAIL-00008	1	EA
9	BAIL-00009	1	EA
10	BAIL-00010	1	EA
11	BAIL-00011	1	EA
12	BAIL-00012	1	EA
13	BAIL-00013	1	EA
14	BAIL-00014	1	EA
15	BAIL-00015	1	EA
16	BAIL-00016	1	EA
17	BAIL-00017	1	EA
18	BAIL-00018	1	EA
19	BAIL-00019	1	EA
20	BAIL-00020	1	EA
21	BAIL-00021	1	EA
22	BAIL-00022	1	EA
23	BAIL-00023	1	EA
24	BAIL-00024	1	EA
25	BAIL-00025	1	EA
26	BAIL-00026	1	EA
27	BAIL-00027	1	EA
28	BAIL-00028	1	EA
29	BAIL-00029	1	EA
30	BAIL-00030	1	EA
31	BAIL-00031	1	EA
32	BAIL-00032	1	EA
33	BAIL-00033	1	EA
34	BAIL-00034	1	EA
35	BAIL-00035	1	EA
36	BAIL-00036	1	EA
37	BAIL-00037	1	EA
38	BAIL-00038	1	EA
39	BAIL-00039	1	EA
40	BAIL-00040	1	EA
41	BAIL-00041	1	EA
42	BAIL-00042	1	EA
43	BAIL-00043	1	EA
44	BAIL-00044	1	EA
45	BAIL-00045	1	EA
46	BAIL-00046	1	EA
47	BAIL-00047	1	EA
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49	BAIL-00049	1	EA
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51	BAIL-00051	1	EA
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94	BAIL-00094	1	EA
95	BAIL-00095	1	EA
96	BAIL-00096	1	EA
97	BAIL-00097	1	EA
98	BAIL-00098	1	EA
99	BAIL-00099	1	EA
100	BAIL-00100	1	EA



DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION															
MADE BY G. MARINI DATE 3 SEPT 75		CHECKED D. HEALY DATE 30 SEPT 75		SECTION		BALL-1A	BALL-1B	BALL-1C	BALL-1D	BALL-1E	BALL-1F	BALL-1H	BALL-1J	BALL-1K	BALL-1L	BALL-1M	BALL-1N			
ENG R. BARRY DATE 2 OCT 75		PROD R.K. PETERSON DATE 2 OCT 75		ISSUED SECT.																
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																		
1	E-UA-H777-DA-0	POWER SUPPLY H777 (115V)				-	-	-	-	-	1	-	-	-	1	-	-			
2	E-UA-H777-DB-0	POWER SUPPLY H777 (230V)				-	-	-	-	-	-	1	-	-	-	1	-			
3	E-IA-7013038-0-0	CHASSIS ASSY				1	1	1	1	1	1	1	1	1	1	1	1			
4	C-IA-7012653	MODULE FRAME, RIGHT SIDE				1	1	1	1	1	1	1	1	1	1	1	1			
5	D-AD-7011132-0-0	ENCLOSURE ASSY				1	1	1	1	1	1	1	1	1	1	1	1			
6	D-IA-7013039-0-0	EXTENSION CHASSIS ASSY				1	1	1	1	1	1	1	1	1	1	1	1			
7	1213013-0-0	FAN (115V) 50/60 HZ				1	1	1	1	1	1	1	1	1	1	1	1			
8	C-IA-7012846-0-0	MODULE FRAME, LEFT SIDE				1	1	1	1	1	1	1	1	1	1	1	1			
9	9006026-2	SCR, PHL FLAT HD 6-32 .75L				3	3	3	3	3	3	3	3	3	3	3	3			
10	9006633	WASHER INT TOOTH LOCK #8				2	2	2	2	2	2	2	2	2	2	2	2			
11	9009165	CLIP MDG #6-32				4	4	4	4	4	4	4	4	4	4	4	4			
12	9006037-3	SCR PHL HD TRUSS #8-32 X .38L				9	9	9	9	13	13	13	13	8	8	8	8			
13	9006634	WASHER INT TOOTH LOCK #8				8	8	8	8	8	8	8	8	8	8	8	8			
14	9006033-1	SCR, PHL MD PWN #8-32 X .33				1	1	1	1	1	1	1	1	1	1	1	1			
15	B-MD-7413846-0-0	BAR, CABLE STRAIN REL				1	1	1	1	1	1	1	1	1	1	1	1			
16	9009711	NUT, WING #6-32				2	2	2	2	2	2	2	2	2	2	2	2			
17	C-IA-7011412-03-0	CABLE, CHASSIS GND				1	1	1	1	1	1	1	1	1	1	1	1			
18	C-IA-7011412-0F-0	CABLE CHASSIS GND				REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF			
19	C-MD-7414963-0-0	BRKT, SHIPPING & CAB MT				2	2	2	2	2	2	2	2	2	2	2	2			
20	9007015	GROMMET .31 ID X .62 O.D.				2	2	2	2	2	2	2	2	2	2	2	2			
21	9006565	NUT, KEPS #10-32				7	7	7	7	7	7	7	7	7	7	7	7			
22	9007031	TIE WRAP				A	A	A	A	A	A	A	A	A	A	A	A			

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
BOX 5.25 BALL-L (230V/115V)	E-UA-BALL-L-#	A	PL	BALL-L-#	U	BALL-L TWO16
SHEET 1 OF 4		DIST				

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION															
PARTS LIST				BALL-LA	BALL-LB	BALL-LC	BALL-LD	BALL-LE	BALL-LF	BALL-LH	BALL-LJ	BALL-LK	BALL-LL	BALL-LM	BALL-LN				
MADE BY G. MARINI		CHECKED D. HEALY		SECTION															
DATE 3-SEP-75		DATE 30-SEP-75																	
ENG R. BARRY		PROD R.K. PETERSON		ISSUED SECT.															
DATE 2-OCT-75		DATE 2-OCT-75																	
ITEM NO	DWG NO. / PART NO.		DESCRIPTION	BALL-LA	BALL-LB	BALL-LC	BALL-LD	BALL-LE	BALL-LF	BALL-LH	BALL-LJ	BALL-LK	BALL-LL	BALL-LM	BALL-LN				
44	C-MD-7418077		CARD GUIDE CENTER	3	3	3	3	3	3	3	3	3	3	3	3				
45	1209403-01		PAN (115V) 50/60 HZ	1	1	1	1	1	1	1	1	1	1	1	1				
46	E-UA-H777-BA-0		POWER SUPPLY H777 (115V)	-	-	1	-	-	-	-	-	-	-	-	-				
47	E-UA-H777-BB-0		POWER SUPPLY H777 (230V)	-	-	-	1	-	-	-	-	-	-	-	-				
48	E-UA-H777-AA-0		POWER SUPPLY H777 (115V)	1	-	-	-	-	-	-	-	-	-	-	-				
49	E-UA-H777-AB-0		POWER SUPPLY H777 (230V)	-	1	-	-	-	-	-	-	-	-	-	-				
50	E-IA-7010994-0-0		CHASSIS ASSY	1	1	1	1	1	1	1	1	1	1	1	1				
51	D-IA-7011099-0-0		FRAME MODULE	1	1	1	1	1	1	1	1	1	1	1	1				
52	D-IA-7011088-0-0		CHASSIS ASSY EXTENSION	1	1	1	1	1	1	1	1	1	1	1	1				
53	B-IA-7418258		STRAP, GROUND	1	1	1	1	1	1	1	1	1	1	1	1				
54	B-MD-7418259		SPACER. ENCLOSURE	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A				
55	9007035		GROMMET CATERPILLAR	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A				
56	9007083		CLAMP, CABLE	-	-	-	-	1	1	1	1	1	1	1	1				
57	A-PS-3613211-01		DECAL, CSA	1	1	1	1	1	1	1	1	1	1	1	1				
58	A-DC-7416197-01		DECAL, UL/NFPA	1	1	1	1	1	1	1	1	1	1	1	1				
59	C-MD-7419019-0-0		BRACKET, MODULE FRAME STIFFENING	2	2	2	2	2	2	2	2	2	2	2	2				
60	9006668		WASHER, FLAT	4	4	4	4	4	4	4	4	4	4	4	4				
61	9006040-03		SCR, PHL. TRUSS HD. #8-32 X .625	4	4	4	4	4	4	4	4	4	4	4	4				
62	9006563-00		NUT, KEP #8-32	4	4	4	4	4	4	4	4	4	4	4	4				
63	9006360-00		NUT, KEP #6-32	3	3	3	3	3	3	3	3	3	3	3	3				
64	9006653		WASHER, FLAT	3	3	3	3	3	3	3	3	3	3	3	3				
65	D-UA-BC11A-10-0		UNIBUS CABLE 10 FT	-	-	-	-	1	1	1	1	-	-	-	-				
TITLE			ASSY NO.	SIZE		CODE		NUMBER				REV.				ECONO			
BOX 5.25 BALL-L (230V/115V)			E-UA-BALL-L-Ø	A		PL		BALL-L-Ø				U							
SHEET 3 OF 4			DIST.																

TW

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION													
PARTS LIST				BALL-LA	BALL-LB	BALL-IC	BALL-LD	BALL-LE	BALL-LF	BALL-LH	BALL-LJ	BALL-LK	BALL-LL	BALL-LM	BALL-LN		
MADE BY G. MARINI		CHECKED D. HEALY		SECTION													
DATE 3-SEP-75		DATE 30-SEP-75		ISSUED SECT.													
ENG R. BARRY		PROD R.K. PETERSON															
DATE 2-OCT-75		DATE 2-OCT-75															
ITEM NO	DWG NO. / PART NO.	DESCRIPTION		BALL-LA	BALL-LB	BALL-IC	BALL-LD	BALL-LE	BALL-LF	BALL-LH	BALL-LJ	BALL-LK	BALL-LL	BALL-LM	BALL-LN		
23	1211630-0	CENTER CARD GUIDE		3	3	3	3	3	3	3	3	3	3	3	3		
24	9009836-0	SCREW PHL TRUSS HD #8-32 X .25L LOCKING		2	2	2	2	2	2	2	2	2	2	2	2		
25	E-UA-H777-CA-0	POWER SUPPLY H777 (115V)		-	-	-	-	1	-	-	1	-	-	-	-		
26	E-UA-H777-CB-0	POWER SUPPLY H777 (230V)		-	-	-	-	1	-	-	1	-	-	-	-		
27	9008072	WASHER, EXT. TOOTH #8		3	3	3	3	7	7	7	7	3	3	3	3		
28	D-AD-7012540-0-0	CONSOLE ASSY		-	-	-	-	1	1	1	1	-	-	-	-		
29	1212405-4	CARD GUIDE, SINGLE		4	4	4	4	4	4	4	4	4	4	4	4		
30	1212405-5	CARD GUIDE, SINGLE		5	5	5	5	5	5	5	5	5	5	5	5		
31	9009836-1	SCR., PHL. HD. TRUSS #8-32 X .38 (LOCKING)		4	4	4	4	4	4	4	4	4	4	4	4		
32	9006666	WASHER, FLAT #8		7	7	7	7	11	11	11	11	7	7	7	7		
33																	
34	9007786	NUT-10-32 SELF RETAINING		4	4	4	4	4	4	4	4	4	4	4	4		
35	9006071-03	SCR., PHL. TRUSS HD. #10-32 X .38		10	10	10	10	10	10	10	10	10	10	10	10		
36	9006035-3	SCR., PHL. TRUSS HD. #8-32 X .25		2	2	2	2	2	2	2	2	2	2	2	2		
37	B-MD-7417606	SIEVEE, ROLLER		2	2	2	2	2	2	2	2	2	2	2	2		
38	B-MD-7417607	ROLLER		2	2	2	2	2	2	2	2	2	2	2	2		
39	9009483-03	SCR., RHL. TRUSS HD. #8-32 X .75		2	2	2	2	2	2	2	2	2	2	2	2		
40	9006690	WASHER, SPLIT LOCK #8		2	2	2	2	2	2	2	2	2	2	2	2		
41	9006561	NUT, HEX #8-32		2	2	2	2	2	2	2	2	2	2	2	2		
42	3700061	CUST. SHIPPING PKG.		-	-	-	-	1	1	1	1	-	-	-	-		
43	3700133	INPLANT PACKAGING		-	-	-	-	1	1	1	1	-	-	-	-		
44																	
TITLE		BOX 5.25 BALL-1 (230V/115V)		ASSY NO. E-UA-BALL-L-Ø		SIZE A PL		CODE BALL-L-Ø		NUMBER		REV.		ECO NO			
				SHEET 2 OF 4		DIST.											

DEC FORM DEC 16 (325)-1031-N870
DRA 110

TW

[illegible]

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FIELD MAINTENANCE PRINT SET

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FIELD MAINT. PRINT SET H777-0	B-TC-H777-0-1
POWER SUPPLY H777-0 SH1	E-UA-H777-0-0
+5V REGULATOR ASSY	D-AD-7011073-0-0
BOARD, POWER DISTRIBUTION H777	D-CS-5411586-0-1
H777 +5V REGULATOR	D-CS-5411597-0-1
AC INPUT ASSY	D-AD-7011075-0-0
MOS REGULATOR H777	D-CS-5411601-0-1
CORE REGULATOR H777	D-CS-5411599-0-1
POWER SUPPLY H777-0 (PL)	A-PL-H777-0-0

H777-0 VOL.1
Field Maintenance
Print Set

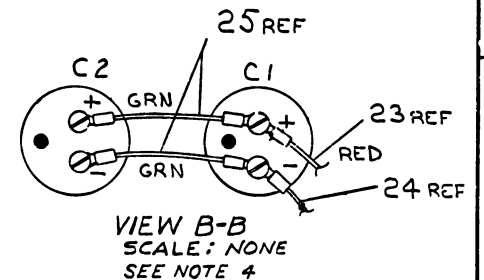
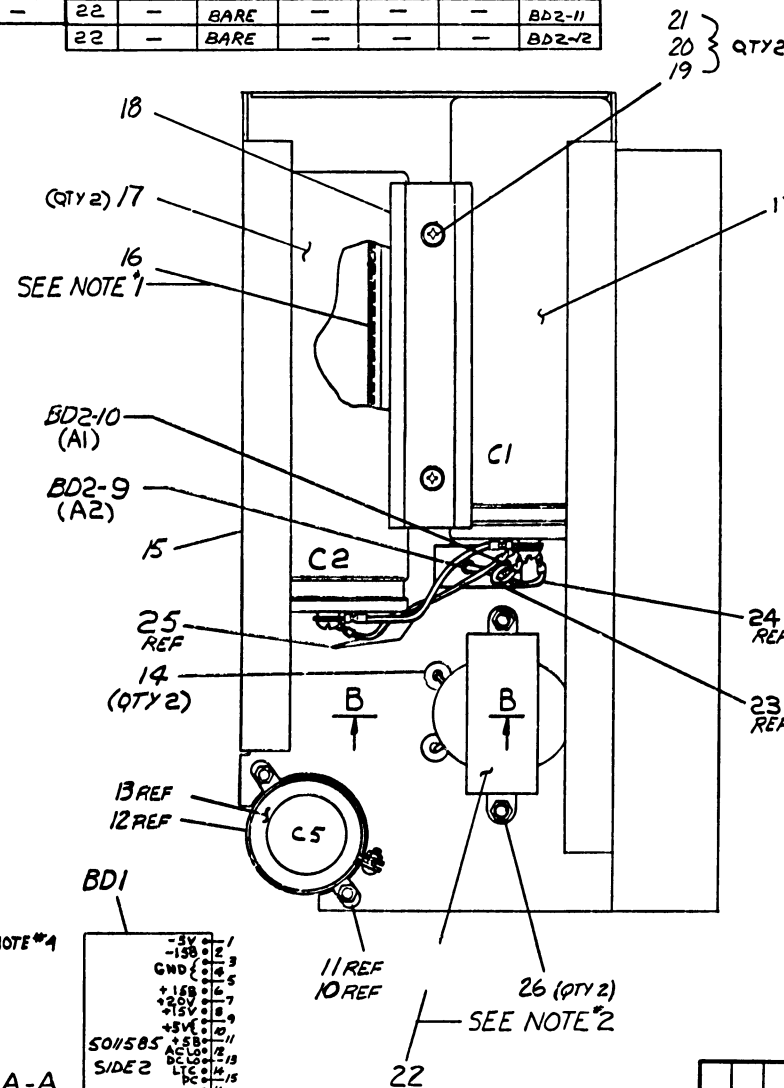
PRINT SET ORDER NO.
MP00016

REV. NO.		REV.	CHG. NO.		CHG.	DATE		DATE	TITLE:		FIELD MAINTENANCE SET		H777-0		SIZE		CODE		NUMBER		REV.	
H777-2		D	H777-2			JAN-77			D. HEALY		9/30/75		9/30/75		B		TC		H777-0-1		D	
REVISI			H777-2			JAN-77			CHK'D		DATE		DATE		DIST.							
H777-2			H777-2			JAN-77			D. HEALY		9/30/75		9/30/75		B		TC		H777-0-1		D	
H777-2			H777-2			JAN-77			PROJ. ENG.		DATE		DATE		DIST.							
H777-2			H777-2			JAN-77			R. BARRY		10/22/75		10/22/75		B		TC		H777-0-1		D	
H777-2			H777-2			JAN-77			FIELD SERV.		DATE		DATE		DIST.							
H777-2			H777-2			JAN-77			SHEET 1 OF 1		27 Jan 77		27 Jan 77		B		TC		H777-0-1		D	

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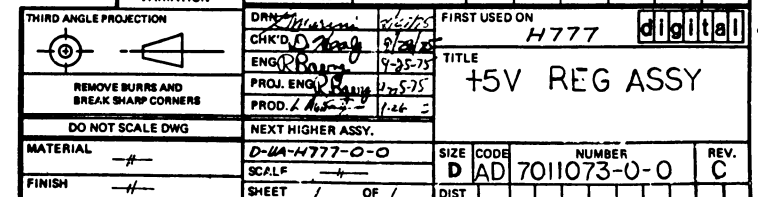
WIRE CHART																		
ITEM NO	DESCRIPTION		FROM		TO		ITEM NO	DESCRIPTION		FROM		TO						
	AWG	COLOR	POINT NO	CONN	POINT NO	CONN		AWG	COLOR	POINT NO	CONN	POINT NO	CONN					
5	20	WHT	1	BD2-8	18	BD1-15	5	14	BLK	28	BD2-13	11	BD1-4					
	14	BRN	2	2	9	1		18	WHT	5	BD1-6	* 9	—					
	14	BLK	3	1	12	5		14	RED	6	BD2-21	* 13	—					
	14	ORN	4	3	13	7		18	GRN	7	BD1-2	12	—					
	20	BRN	5	5	19	14		25	14	GRN	—	C1(+)	—	C2(+)				
	20	BLK	6	4	20	16		25	14	GRN	—	C1(-)	—	C2(-)				
	20	YEL	7	6	16	12		23	14	RED	—	BD2-10	—	C1(+)				
	20	VIO	8	7	17	13		24	14	BLK	—	BD2-9	—	C1(-)				
14	BLK	30	BD2-17	10	BD1-3	7	14	BLK	2	BD1-18	* 8	—	22	—	BARE	—	—	BD2-11
18	RED	3	BD1-11	* 14	—		22	—	BARE	—	—	—	—	BD2-22				
18	RED	3	BD1-11	* 14	—		22	—	BARE	—	—	—	—	BD2-22				

1. USE ITEM #16 (GROMMET) TO COVER RAW METAL EDGES UNDER CAPACITORS.
2. LEADS FROM ITEMS #22, 23 & 24 ARE TO BE CUT FLUSH WITH TOP OF CLAMPS ON ITEM #1. A1, A2, A3 & A4
3. * ASTERISK INDICATES THAT THESE COUN. ALREADY HAVE BEEN MADE ON PLUG P1 ON HARNESS D-1A-7011560-0-0 THEY ARE SHOW FOR REF ONLY.
4. ITEMS #17 & #13 ARE TO HAVE THEIR ELECTRICAL CONNECTIONS TORQUED TO 12 IN.-LBS (-0, +10) IN.-LBS.



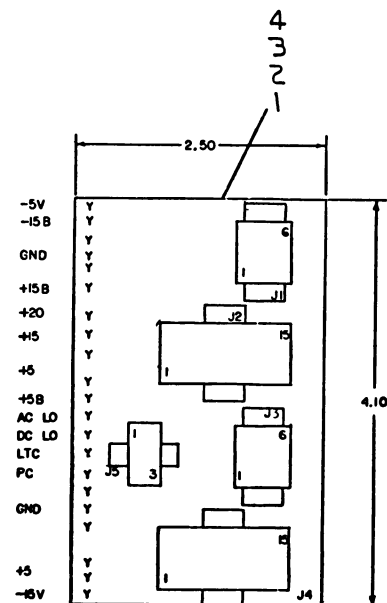
1	DECAL	A-DC-7416911-0-0	28
1	WASHER NYLON "6	9006707	27
2	NUT KEPS "8-32	9006563	26
2	JUMPER (GRN)	B-2A-7011800-0-0	25
1	JUMPER (BLK)	B-2A-7011802-0-0	24
1	JUMPER (RED)	B-2A-7011801-0-0	23
1	CHOKE	16/2584	22
2	SPACER HEX "6-32 X 1.58L	9008258	21
2	WASHER TIT TOTH LOCK "8	9006634	20
2	SCR PHIL HD PAN "8-32 X .50L	9006037-1	19
1	CLAMP CAPACITOR	C-MD-744021-0-0	18
2	CAPACITOR 24 KUF 50V	1010702	17
4/R	GROMMET CATERPILLAR	9007035	16
1	BRACKET CAPACITOR	E-2A-7413743-0-0	15
2	GROMMET RUBBER	9007017	14
1	CAPACITOR 37004F 16.0V(65)	1012740	13
1	CLAMP CAPACITOR	9009052	12
2	SCR PHIL PAN HD "6-32 X .25L	9006020-1	11
2	NUT KEPS "6-32	9008185	10
1	BRACKET CONN	D-2A-7413752-0-0	9
1	BOARD, PWR DISTR. H777	D-CS-581586-0-1	8
1	HARNESB BD MOS REG PWR DST	D-2A-7011560-0-0	7
2	WASH, 375 O.D.X.167IDX.036	9006660	6
1	HARNESB H777 +SV REG	D-2A-7011415-0-0	5
2	SCR PHIL HD PAN "6-32 X .3/L	9006021-1	4
2	SCR PHIL HD PAN "6-32 X .50L	9006024-1	3
3	WASHER, INT TOOTH LOCK "6	9006633	2
1	H777+SV REGULATOR	D-CS-581597-0-1	1

		DESCRIPTION										DWG./PART NO.				ITEM NO.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																	
		ANGLES 50° 30'		CLASS OF ACCURACY				NOMINAL DIMENSION RANGE INCHES											
				(CHECK ONE)				OVER 0 2	OVER 0 2	OVER 1 2	OVER 4 0	OVER 10 0	OVER 12 0	OVER 40 0	OVER 80 0				
SURFACE QUALITY		IN		☒ MEDIUM		± .004		± .008		± .012		± .016		± .024		± .04			
QUANTITY & VARIATION		MICROINCHES		☐ PREFERRED		± .012		± .016		± .025		± .04		± .063		± .1			



REVIEWS		
CHK#	CHANGE NO.	REV.
1.1.1	7011073-00001	A
R BARRY		
Richard Barry 11-25-75		
A.C.	7011073-00002	B
P. Barry 20 JUN 76		
B. COURTEMANCHE		
B. Courtemanche 21 JUN 76		
A.C.	H777-00002	C
B. Courtemanche 21 JUN 77		
B. COURTEMANCHE		
B. Courtemanche 21 JUN 77		

NOTES:



REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411586-0-4	1
REF		ASSY DRILLING HOLE LAYOUT	D-AH-5411586-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411586-0-6	3
1		ETCHED CIRCUIT BOARD	5011585	4
2	J2,J4	CONN.,MATE-N-LOCK,15 PIN HOUSING	1209350-15	5
2	J1,J3	CONN.,MATE-N-LOCK,6 PIN HOUSING	1209350-06	6
43		PIN,CONTACT,MATE-N-LOCK	1209456-01	7
1	J5	CONN.,MATE-N-LOCK,3 PIN HOUSING	1209350-03	8

[illegible]

QTY		REF DESIGNATION		DESCRIPTION		PART NO		ITEM NO					
FIRST USED ON OPTION MODEL				PARTS LIST									
1104 PWR SUPPLY													
ETCH BOARD REV				D									
CHK	CHANGE NO	REV			DRA		DATE		digital EQUIPMENT CORPORATION WATKINS MASSACHUSETTS TITLE BOARD, POWER DISTRIBUTION H777 SHEET 1 OF 1				
					203/75								
					CIRCUIT		DATE						
					2-23-75								
					ENCH		DATE						
					7-2-75								
					TEST AND		DATE						
					7-2-75								
					PROD.		DATE						
DEC NO.		EIA NO.		DEC NO.		EIA NO.		REV.					
SEMICONDUCTOR CONVERSION CHART								SIZE/CODE		NUMBER		REV.	
								D1CS		5411566-0-1		C	
								D1ST					

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NOTES:

1. HARDWARE ON D1, Q1, Q2, D6, S1, C5 MUST BE TORQUED TO 12 IN.-LBS (-0, +1)

QTY	REF	DESIGNATION	SUBSTITUTION LIST DESCRIPTION	PART NO.	ITEM NO.
1	C19		CAPACITOR, 1.5mf, 50V, POLYCARB	1010031-08	12
1	D1		DIODE	1112723-01	23
8	C6, C9, C11, C20, C24 - C27		CAPACITOR, .01mf, 50V	1001610-00	8
1	D8		DIODE	1103341	16
1	D11		DIODE	1102808	15
1	D13		DIODE, ZENER, 5.1V, 2% IZT = 5ma	1110713	19
1	D10		DIODE	1110968	21
3	D7, D43, D45		DIODE	1110994	22
1	D1		DIODE, DUAL, TO3	1112723-00	23
2	D2, D28		DIODE	1112595-01	24
1	D38		DIODE, ZENER 13V IN9648	1109988	25
1	J5		CONNECTOR 2 PIN MATE-IN-LOC	1211342-2	26
1	J1		TERMINAL BOARD 8 STATION	1212484-01	27
4			SOLDER LUG	9009676	28
18			PINS, STAKING	9009149	29
1	F2		FUSE 5A	1209070	30
2	R18, R19		RESISTOR, 100, 1/4W, 5%	1300229	31
1	R10		RESISTOR, 150, 1/4W, 5%	1300250	32
1	R2		RESISTOR, 150, 1W, 5%	1300255	33
1	R34		RESISTOR, 220, 1W, 10%	1300277	34
2	R78, R81		RESISTOR, 390, 1/4W, 5%	1300309	35
2	R29, R16		RESISTOR, 470, 1/4W, 5%	1300316	36
7	R82, R28, R38, R50, R69, R52, R54		RESISTOR, 1K, 1/4W, 5%	1300365	37
2	R8, R66		RESISTOR, 2.7K, 1/4W, 5%	1300428	38
7	R31, R60, R62, R65, R68, R15, R39		RESISTOR, 4.7K, 1/4W, 5%	1300447	39
13	R63, R25, R32, R35, R36, R37, R80, R55 THRU R57, R67, R70, R77		RESISTOR, 10K, 1/4W, 5%	1300470	40
1	R24		RESISTOR, 12, 1/4W, 5%	1301430	41
1	R4		RESISTOR, 47, 1/2W, 5%	1301695	42
5	R23, R48, R40, R64, R75		RESISTOR, 270, 1/4W, 5%	1301972	43
2	R72, R74		RESISTOR, 150K, 1/4W, 5%	1302396	44
2	R26, R61		RESISTOR, 2K, 1/4W, 5%	1302388	45
4	R22, R71, R41, R73		RESISTOR, 30K, 1/4W, 5%	1302394	46
3	R49, R51, R53		RESISTOR, 56K, 1/4W, 5%	1302395	47
1	R27		RESISTOR, 100K, 1/4W, 5%	1302466	48
2	R17, R21		RESISTOR, 30, 1/4W, 5%	1302751	49
2	R43, R44		RESISTOR, 1 21K, 1/4W, 1%	1302871	50
1	R46		RESISTOR, 1K, 1/4W, 1%	1303114	51
1	R33		RESISTOR, 8.2K, 1/4W, 5%	1303179	52
1	R45		RESISTOR, 10K, 1/8W, 1%	1303312	53
QTY	REF.	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL

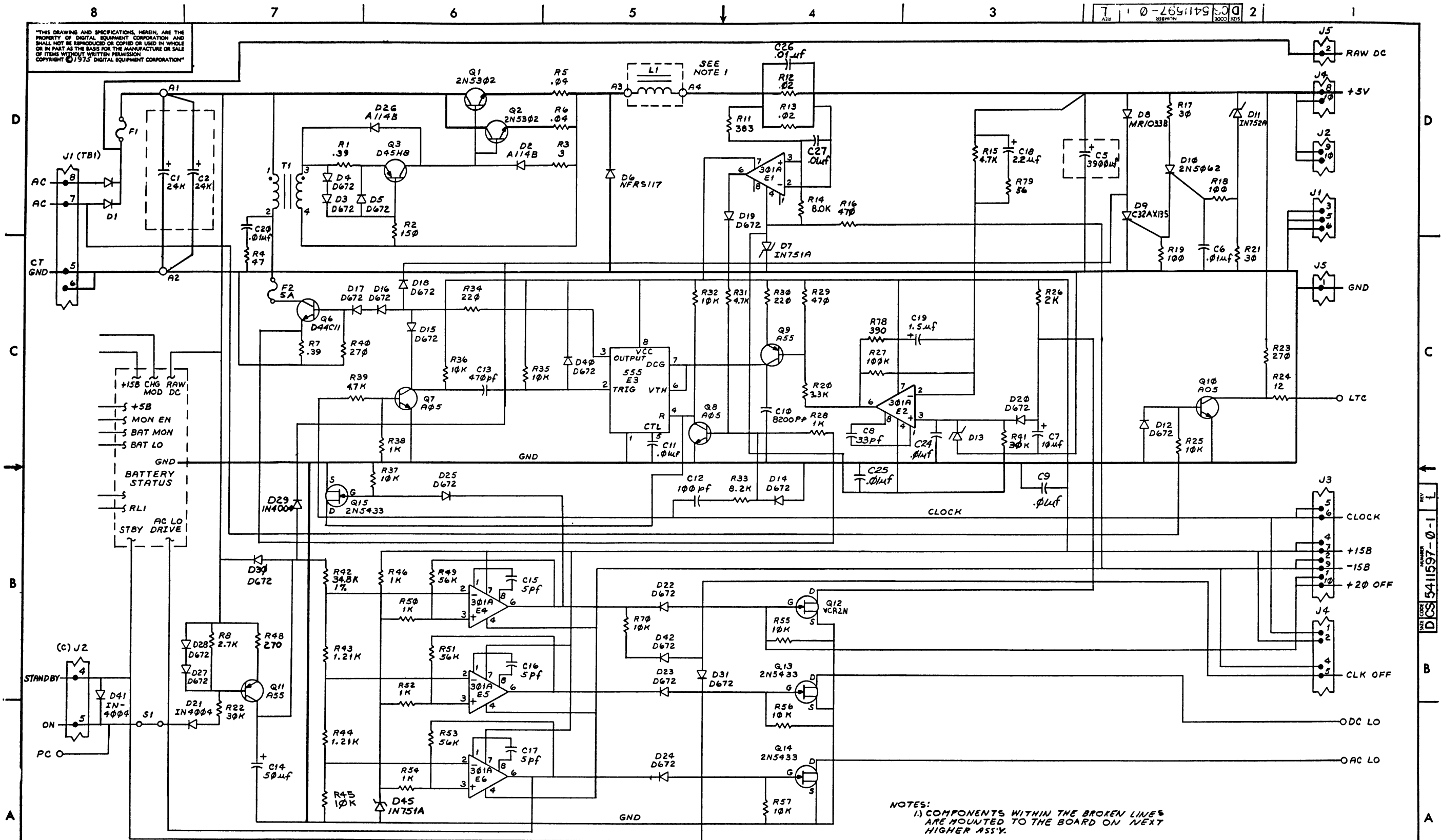
ETCH BOARD REV. E		PARTS LIST	
DRN. J. Linart	DATE 6-30-75	digital	
CHKD. J. Linart	DATE 7-5	H777	
ENG. J. Linart	DATE 7-5	+5V REGULATOR	
PROF. ENG. J. Linart	DATE 7-5	TITLE	
PROD. J. Linart	DATE 7-5	NEXT HIGHER ASSY	
SCALE 1 OF 4		SIZE CODE DCS	NUMBER 5411597-0-1
SHEET		DIST.	REV. L

SEMICONDUCTOR CONVERSION CHART

IC 555	1	8
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT WHERE STATED ABOVE		
IC PIN LOCATIONS		

DEC NO.	EIA NO.	DEC NO.	EIA NO.
1	100	1	100
2	200	2	200
3	300	3	300
4	400	4	400
5	500	5	500
6	600	6	600
7	700	7	700
8	800	8	800
9	900	9	900
10	1000	10	1000
11	1100	11	1100
12	1200	12	1200
13	1300	13	1300
14	1400	14	1400
15	1500	15	1500
16	1600	16	1600
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28	2800	28	2800
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100	10000	100	10000

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NOTES:
1) COMPONENTS WITHIN THE BROKEN LINES ARE MOUNTED TO THE BOARD ON NEXT HIGHER ASSY.

REVISIONS		
CHK	CHANGE NO	REV

TITLE		H777		+5V REGULATOR		SIZE CODE		NUMBER		REV.	
SCALE		SHEET		3 OF 4		DIST.					

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LEGEND

PART NO	VARIATION
7011075-0	120 V
7011075-1	230 V

ITEM NO	DESCR	FROM		TO		REMARKS
		AVG COLOR	CONN	WITH	CONN	
22	18 WHT	K1-4	SOLD	*T82-4S	SOLD	5 1/2" L
23	18 BLK	K1-6		*T82-1S	SOLD	5" L
24	18 BRN	K1-7		T82-5H	25,93	6 1/2" L
26	18 BLU	K1-9		T82-6H	25,93	7 1/2" L
27	18 GRN	K1-A		—	25	
	TWP BLK	K1-B	SOLD	—	25	
28	18 BLU	G2	SOLD	*T82-6S	SOLD	6" L
29	18 BLK	F1-1	SOLD	*T82-1S	SOLD	5" L
15	18 BLU	EMI-2 LOAD	—	*T82-4S	SOLD	6" L
	TWP BRN	EMI-1 LOAD	—	*T82-6S	SOLD	6" L
22	18 WHT	EMI-1-2	SOLD	CBI-2 LOAD	28,41	5" L
23	18 BLK	EMI-1	SOLD	CBI-1 LOAD	28,41	5" L
45	18 WHT	*T82-6S	SOLD	J2-1	30,32	6 1/2" L
	TWP BLK	*T82-2S	SOLD	J2-2	30,32	6 1/2" L
45	18 WHT	*T82-5S	SOLD	J3-1	30,32	15 1/2" L
	TWP BLK	*T82-2S	SOLD	J3-2	30,32	15 1/2" L

WIRE CHART

ITEM NO	DESCAP	FROM		TO		REMARKS	
		AVG	COLOR CONN	WITH	CONN		WITH
1	14	BLK	T1	43	T82-1H	—	—
	THP	BRN/WH			T82-3H	—	---
	14	RED			T82-2H	—	—
	THP	RD/WH	T1		T82-4H	—	---
23	18	BLK	G3	SOLD	F1-2	SOLD	4' L
34	14	GRN/BL	EMI-3	SOLD	—	42	8" L
35	18	BLK	T82-1H	—	T82-2H	—	120V
36	18	WHT	T82-3H	—	T82-4H	—	120V
35	18	BLK	T82-2H	—	T82-3H	—	230V
13	22	BARE	R1-A	—	G3	SOLD	33
13	22	BARE	R1-B	—	G2	SOLD	33
							38

NOTES:

1. SECOND SOURCE FOR ITEM #15 (LINE FILTER) WILL HAVE WHT & BLK LEADS. SUBSTITUTE WHT FOR BLU AND BLK FOR BRN.
2. TWISTED PAIR WIRE TO HAVE A MIN OF 4 TWIST PER INCH AS PER WIRE CHART.
3. ALL CONNECTIONS TO TAB ARE TO BE MADE FROM SIDE INDICATED BY ARROW.
4. USE TIE WRAPS (ITEM #30) AS NEEDED.
5. T1 PRIMARY WIRES TO T82 MUST BE ROUTED BY ITEM #4
6. COVER ITEM #28 WITH ITEM #41 TO COVER EXPOSED PART OF TERMINAL.

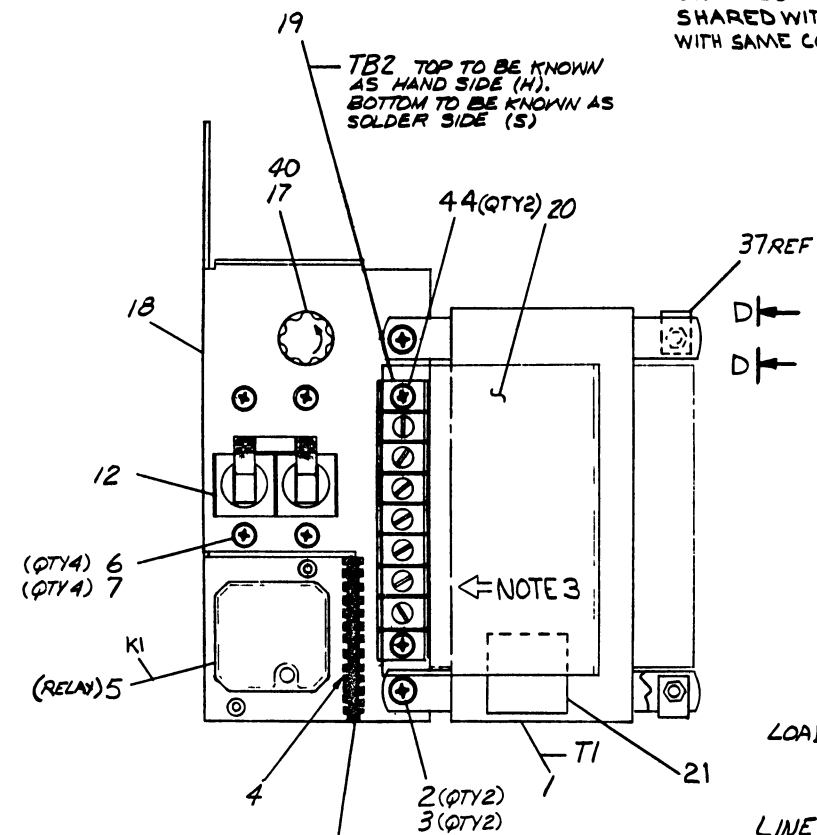
SEE NOTE 2

SEE NOTE 1/2

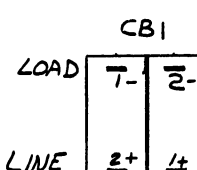
SEE NOTE 2
SEE DETAIL 'C'

* INDICATES SOLDER CONN.
SHARED WITH OTHER CONN.
WITH SAME COMMON CONN.

TB2 TOP TO BE KNOWN AS HAND SIDE (H).
BOTTOM TO BE KNOWN AS SOLDER SIDE (S)

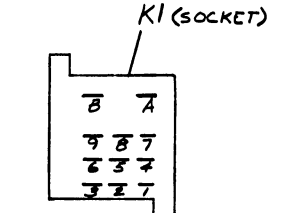
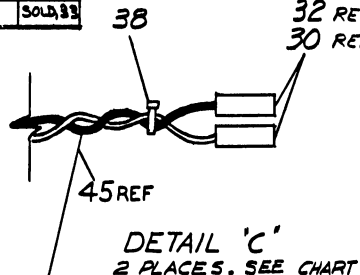


VIEW D-D
TYP-4 PLACES
(BOTTOM FEET ONLY)
SCALE: NONE



VIEW A-A
REAR VIEW OF CBI & C82
(ITEM #12) FOR WIRING ONLY.

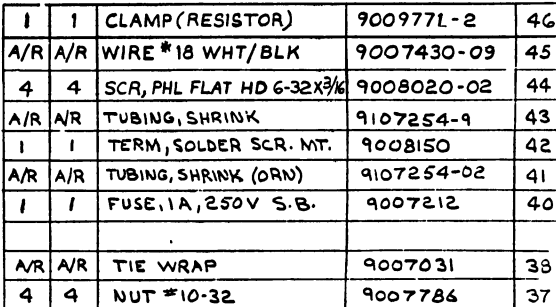
SIDE VIEW
TRANSFORMER (ITEM #1) REMOVED.
FOR CLARITY.



CONT. ON SHEET 2 of 2			
ITEM NO	DESCRIPTION	DWG. PART NO.	ITEM NO.
36	JUMPER ASSY (WHT 2")	B-A 7011798-0-0	36
35	JUMPER ASSY (BLK 2")	B-A 7011797-0-0	35
34	WIRE 18 AWG TRACER (GRN/YEL)	9107777-54	34
33	TUBING INS (RED)	9107278-02	33
32	HOUSING SOCKET FASTAB	1210820-1	32
31	TUBING SHRINK (RED)	9107305-02	31
30	HOUSING TERM FASTAB	1210820-2	30
29	CIRCUIT BREAKER, 5A	1210191-1	29
28	CONN FASTON (RED INS)	9007970	28
27	WIRE 18 AWG INS (GRY/BLK)	9107430-08	27
26	WIRE 18 AWG INS (BLU)	9107360-66	26
25	RING CRIMP (RED INS)	9007929	25
24	WIRE 18 AWG INS (BRN)	9107360-11	24
23	WIRE 18 AWG INS (BLK)	9107360-00	23
22	WIRE 18 AWG INS (WHT)	9107360-99	22
21	MOUNT TIE WRAP	9008264	21
20	SHIELD TERM	C-A 7414743-0	20
19	TERMINAL 7 POS	1212788	19
18	BACKET COMPONENT	D-A 7413769-0-0	18
17	HOLDER, FUSE	9007242-0	17
16	NUT KEPS #6-32	9009243	16
15	FILTER LINE (EMI)	1212748	15
14	TERMINAL TURRET INS	9006966	14
13	RESISTOR 10.5 10W	1300173	13
12	CIRCUIT BREAKER, 10A	1210191-0	12
11	SOCKET, RELAY	1212789	11
10	SCR PHIL HD PAN #6-32 X.25	9006021-01	10
9	SCR PHIL HD PAN #6-32 X.62	9006026-01	9
8	SPACER HEX #6-32 X.19	9006842	8
7	WASHER INT TOOTH LOCK #6	9006633	7
6	SCR PHIL HD PAN #6-32 X.19	9006020-01	6
5	RELAY 6E12V 3P 10A	1210683	5
4	GROMMET CATERPILLAR	9007035	4
3	WASHER INT TOOTH LOCK #8	9006634	3
2	SCR PHIL PAN HD #8-32 X.44	9006038-1	2
1	TRANSFORMER ASSY	C-A 7011803-0-0	1

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
7011075-1		7011075-0		7011075-0		7011075-0	
THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANGLES 30° 30'		SURFACE QUALITY IN	
REMOVE BURRS AND BREAK SHARP CORNERS		DO NOT SCALE DWG		NEXT HIGHER ASSY.		MATERIAL	
FINISH		SCALE		SHEET		OF 2	
DIST.		TITLE		A/C INPUT ASSY (120V/230V)		REV. C	
D-1A-H777-0-0		SIZE		CODE		NUMBER	
AD		7011075-0-0		DIST.		REV. C	

REVISIONS	
CHK	CHANGE NO. REV



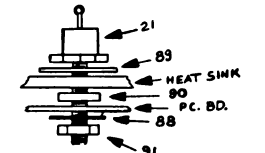
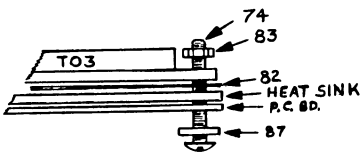
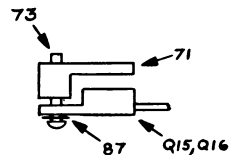
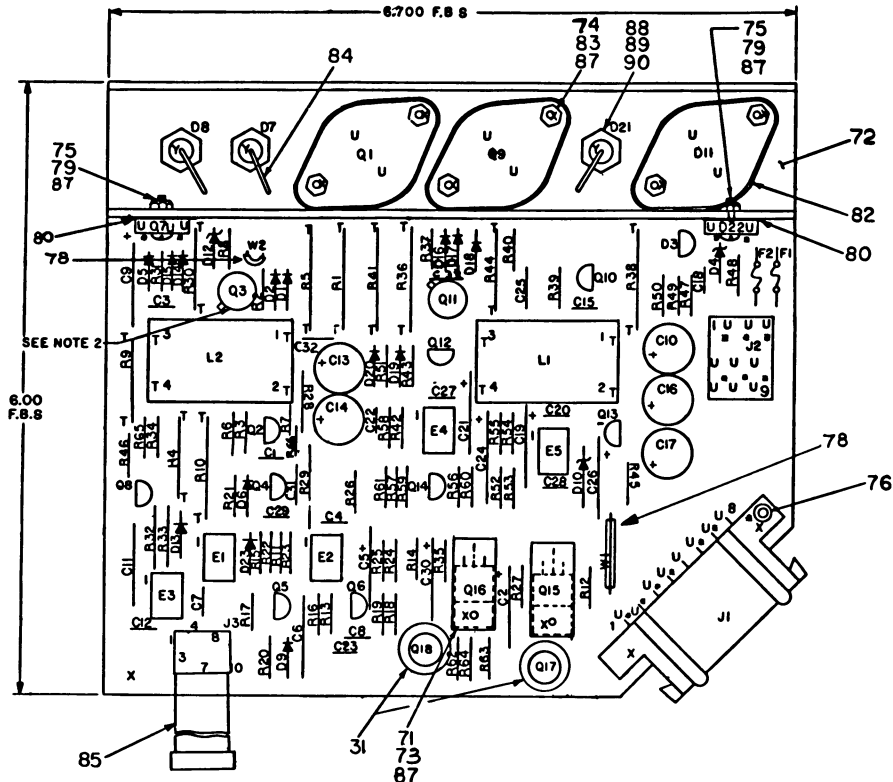
I	1	CLAMP (RESISTOR)	9009771-2	46
A/R	A/R	WIRE *18 WHT/BLK	9007430-09	45
4	4	SCR, PHL FLAT HD 6-32x3/4	9008020-02	44
A/R	A/R	TUBING, SHRINK	9107254-9	43
I	I	TERM, SOLDER SCR. MT.	9008150	42
A/R	A/R	TUBING, SHRINK (ORN)	9107254-02	41
I	I	FUSE, 1A, 250V S.B.	9007212	40
A/R	A/R	TIE WRAP	9007031	38
4	4	NUT *10-32	9007786	37

FIRST USED ON OPTION/MODEL H777			QTY.		DESCRIPTION		PART NO.		ITEM NO.				
			PARTS LIST										
DIMENSIONAL TOLERANCE			DRN. <i>F. Hagan</i>		DATE <i>7-18-75</i>		digital						
DIMENSIONS ARE <u>INCHES</u>			CHKD. <i>W. Karg</i>		DATE <i>7-18-75</i>								
UNLESS OTHERWISE SPECIFIED			ENG. <i>C. Barry</i>		DATE <i>9-25-75</i>								
MILLIMETERS		INCHES	ANGLES		TITLE		A/C INPUT ASSY (120V/230V)						
X.XX ± 0.10		XXX ± .005	30° 30'		PROJ. ENG. <i>C. Barry</i>							DATE <i>9-25-75</i>	
X.X ± 0.5		.XX ± .02			PROJ. <i>C. Barry</i>							DATE <i>10/7/75</i>	
X ± .5		± .2			NEXT HIGHER ASSY.								
THIRD ANGLE PROJECTION			REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓			SIZE CODE		NUMBER		REV.			
			MATERIAL <i>1-1</i>			D AD		7011075-0-0		C			
FINISH <i>1-1</i>			SCALE			DIST							
			SHEET <i>2</i> OF <i>2</i>										

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NOTES:

1. SEE PARTS LIST FOR CURRENT HDW. D7,D8,D21
2. USE TRANSIPAD DEC#9007201 UNDER Q3,Q11,Q17,Q18
3. TORQUE Q1,Q9,D7,D8,D11,4 D21 HARDWARE TO 6-8 IN.-LBS.



SIDE VIEW MOUNTING D7,D8 AND D21

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	R18	RESISTOR, 0.2K, 1/4W, 5%	1303179	51	REF	X-Y COORDINATE HOLE LOCATION	K-CO-5411601-0-4	1	
1	R28	RESISTOR, 4.98K, 1/4W, 1% MF	1305324	52	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5411601-0-5	2	
2	R1,R36	RESISTOR, 1, 2W, 5% WW	1305428	53	REF	MODULE ECO HISTORY	B-MH-5411601-0-6	3	
1	R55	RESISTOR, 5/1, 1/4W, 5%	1309422	54	1	ETCHED CIRCUIT BOARD	5011600	4	
1	R5	RESISTOR, .15Ω, 2W, 10%	1310147	55	2	C20,C4	CAPACITOR, 33pf, 100V, 5%	1000009	5
1	R32	RESISTOR, 2.21K, 1/4W, 1%	1310631	56	1	C8	CAPACITOR, 100pf, 100V, 5%	1000016	6
1	D22	DIODE 2N4441 SCR	1505867	57	1	C7	CAPACITOR, 220pf, 100V, 5%	1000021	7
3	Q3,Q11,Q17	TRANSISTOR, 2N4036	1509700	58	1	C25	CAPACITOR, .1mf, 100V, 20% DISC	1000030	8
1	Q18	TRANSISTOR, DEC 3734	1510062	59	7	C3,C12,C18,C27,C28,C32,C33	CAPACITOR, .01mf, 100V, DISC	1001610-01	9
1	Q7	TRANSISTOR, MJE3055	1510555	60	6	C2,C5,C9,C19,C26,C30	CAPACITOR, 1mf, 35V, 10%	1001776	10
7	Q4,Q5,Q6,Q8,Q12 THRU Q14	TRANSISTOR, XA06	1510705	61	2	C29,C31	CAPACITOR, .47mf, 25V, 20%	1010279	11
2	Q2,Q10	TRANSISTOR, XB55	1510706-1	62	1	C24	CAPACITOR, 10mf, 20V, 10%	1004813	12
1	Q16	TRANSISTOR, D45H8	1510708	63	2	C8,C21	CAPACITOR, .01mf, 100V, 10% MYLAR	1005784	13
2	Q1,Q9	TRANSISTOR, 2N5038	1510969	64	1	C11	CAPACITOR, .015mf, 50V, 2% POLYC	1010646	14
1	Q15	TRANSISTOR, D44H5	1512722	65	2	C13,C14	CAPACITOR, 390mf, 20V	1012607-06	15
2	L1,L2	INDUCTOR, 500uh	1612593	66	1	C17	CAPACITOR, 1200mf, 6.3V	1012607-01	16
2	E2,E5	I.C. L.M. 301A	1910282	67	2	C10,C16	CAPACITOR, 180mf, 50V	1012607-02	17
3	E1,E3,E4	I.C. L.M. 555	1911944	68	11	D1,D2,D6,D13 THRU D17,D19,D20,D23	DIODE IN752A	1102808	18
1	C22	CAPACITOR, 470pf, 100V, 5%	1000024	69	1	D4	DIODE IN4004	1105796	20
1	C23	CAPACITOR, 180pf, 100V, 5%	1000020	70	3	D7,D8,D21	DIODE IN3880	1109440	21
2		HEAT SINK	7414765	71	1	D12	DIODE IN4742	1109502	22
1		HEAT SINK	7413842	72	1	D10	DIODE 1zt 5ma 5.1V, 2%	1110713	23
2		SCREW #4-40 x 7/16 LG	9006012-1	73	1	D3	DIODE 2N5082	1110968	24
6		SCREW #4/40 x 1/2 LG.	9008013-1	74	2	D5,D18	DIODE A114B	1112595-01	25
2		SCREW, NYLON #4/40 x 3.75LG.	9006401-4	75	1	D11	DIODE DUAL	1112723-00	26
1		EYELET	9009000	76	2	F1,F2	FUSE 5A	1209070	27
4		TRANSIPAD	9007201	77	1	J1	CONN. 8 PIN MATE-N-LOC	1209340-00	28
A/R		TUBING	9107256-11	78	1	J2	CONN. 9 PIN MATE-N-LOC	1209350-09	29
2		NUT, NYLON #4/40	9007992	79	17		PINS	1209456-01	30
2		SILPAD TO 22	1213071-06	80	2	(Q18),(Q17)	HEAT SINK	1210001	31
A/R		THERMAL COMPOUND	9008268	81	4	R2,R37,R47,R50	RESISTOR, 33, 1/4W, 5%	1300197	32
3		SILPAD TO 3	1213071-02	82	2	R12,R14	RESISTOR, 68, 1/4W, 5%	1300219	33
6		NUT, KEP #4/40	9006557	83	8	R6,R27,R35,R39,R48,R49,R63,R64	RESISTOR, 100, 1/4W, 5%	1300229	34
A/R		WIRE #20 AWG STRANDED	9107460-66	84	2	R9,R44	RESISTOR, 100, 1W, 5%	1300232	35
1	J3	CONTROL CABLE	7011414-0D	85	1	.R52	RESISTOR, 390, 1/4W, 5%	1300309	36
2		WASHER, LOCK, INTERNAL TOOTH	9006632	86	7	R19,R20,R54,R59,R60,R62,R25	RESISTOR, 1K, 1/4W, 5%	1300365	37
10		WASHER, FLAT	9008172	87	1	R45	RESISTOR, 1.5K, 1/4W, 5%	1300391	38
3		WASHER, FLAT	9006666	88	1	R29	RESISTOR, 2.49K, 3/4W, 1%	1300424	39
3		SILPAD, STUD MOUNT	1213071-05	89	3	R11,R43,R61	RESISTOR, 2.7K, 1/4W, 5%	1300426	40
3		BUSHING, NYLON	9008440	90	2	R7,R65	RESISTOR, 4.7K, 1/4W, 5%	1300447	41
3		NUT, HEX #10-32	9006565	91	2	R23,R56	RESISTOR, 5.62K, 1/4W, 1%	1305128	42
					11	R13,R15,R16,R17,R21,R22,R42,R46,R51,R57,R58	RESISTOR, 10K, 1/4W, 5%	1300479	43
AR	W1,W2	WIRE, #20 AWG. SOLID	9107560-02	93	2	R53,R24	RESISTOR, 100K, 1/4W, 5%	1302466	44
1		LABEL, POWER SUPPLY	9009255-00	94	3	R8,R31,R40	RESISTOR, 10, 1/4W, 5%	1301317	45
2		TIE, CABLE	9007031	95	2	R10,R41	RESISTOR, 330, 2W, 10%	1301961	46
2	C1,C15	CAPACITOR, .02UF, 100V, DISC.	1000004	96	2	R26,R34	RESISTOR, 2K, 1/4W, 5%	1302388	47
1	R3	RESISTOR, 56, 1/4W, 5%	1302602	97	1	R66	RESISTOR, 180, 1/4W, 5%	1301322	48
1	R33	RESISTOR, 2.49K, 1/4W, 1%	1312626	98	1	R4	RESISTOR, 1.2K, 1W, 10%	1302950	49
1	R38	RESISTOR, .10Ω, 2W, 10%	1316012	99	.1	R30	RESISTOR, 1.8K, 1W, 5%	1303122	50

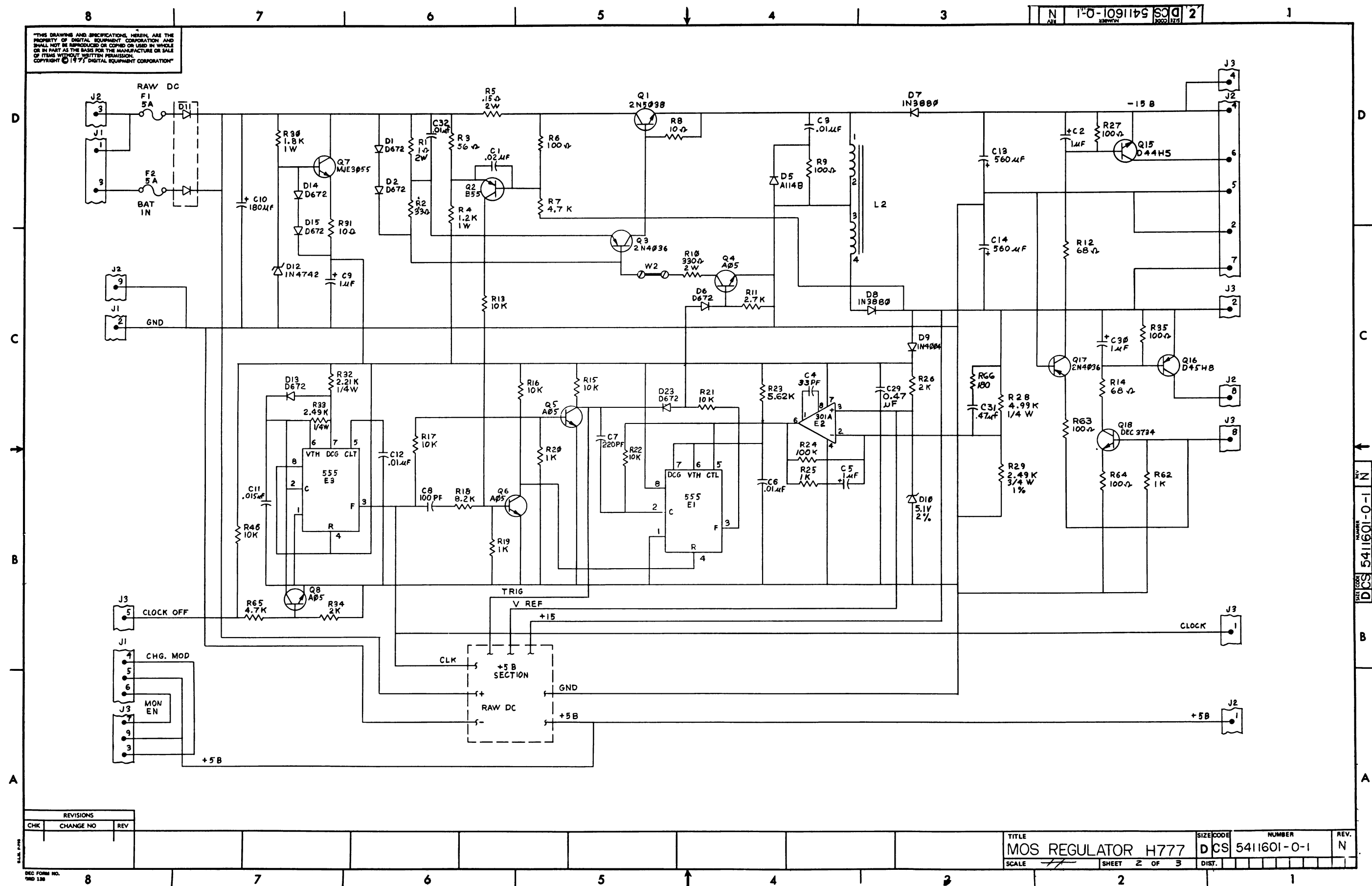
ALTERNATE PARTS LIST

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		EYELET	9006732	76	1	R4	RESISTOR, 1.2K, 1W, 10%	1302950	49
7	C3,C12,C18,C27,C28,C32,C33	CAPACITOR .01 MF 50V	1001010-00	9	.1	R30	RESISTOR, 1.8K, 1W, 5%	1303122	50

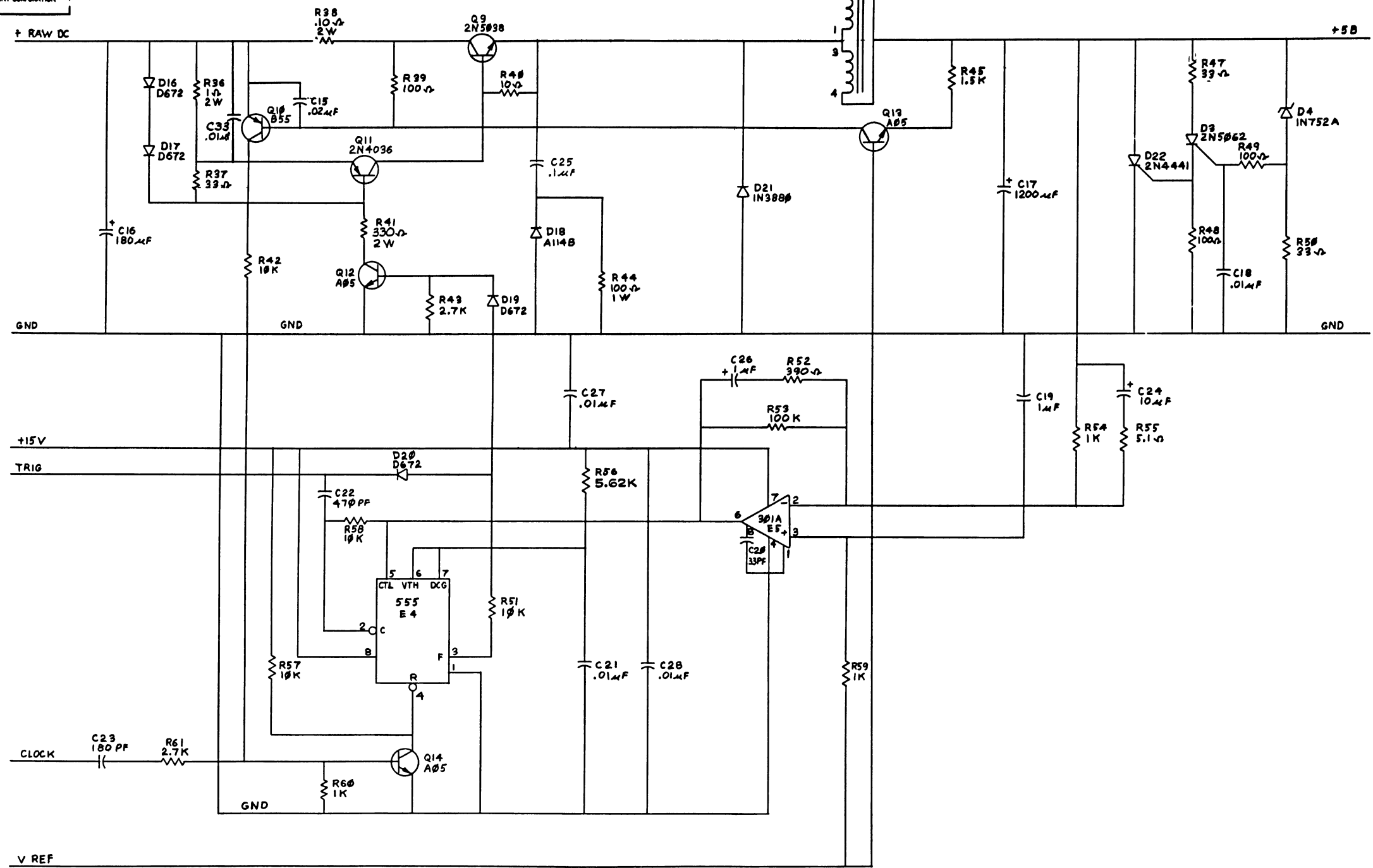
FIRST USED ON OPTION MODEL				ETCH BOARD REV. E			
PARTS LIST				TITLE MOS REGULATOR H777			
DRN. 8-28-75				DATE 8-28-75			
CHBD.				DATE 8-28-75			
ENG. 8-28-75				DATE 8-28-75			
PRD. 8-28-75				DATE 8-28-75			
NEXT HIGHER ASSY				DATE 8-28-75			
SCALE 1 OF 3				SHEET 1 OF 3			
SEMICONDUCTOR CONVERSION CHART				DST.			

IC TYPE GND +5V
GND AND 5V ARE USUALLY PIN 7 AND 14
RESPECTIVELY EXCEPTIONS ARE STATED ABOVE
IC PIN LOCATIONS

AL BARON
5411601-00008 N
E. CROCKER
5411601-00007 M
BRUCE CRAWFORD
5411601-00006 L
5411601-00004 J
G. POTTER
5411601-00005 K
R. DAY
5411601-00002 F
5411601-00001 E
5411601-00000

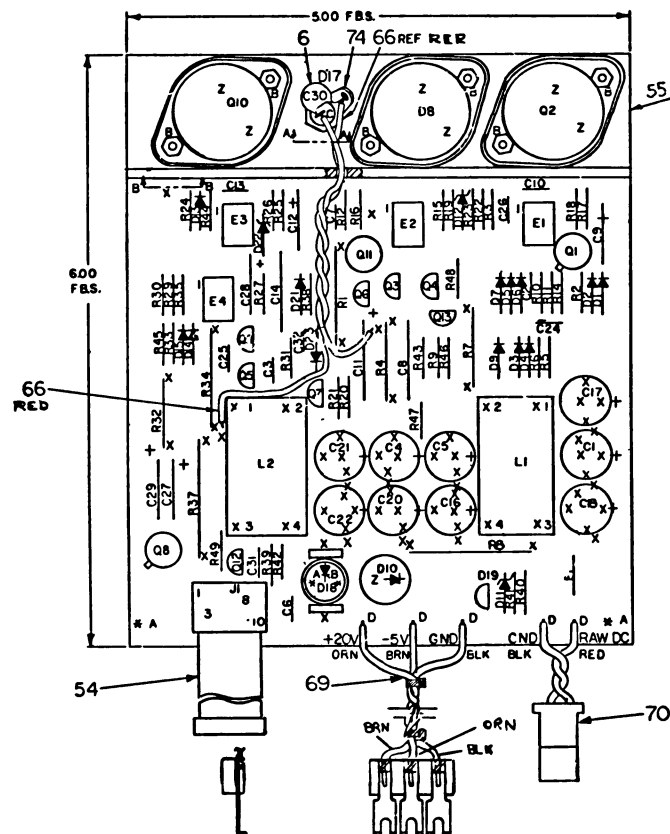
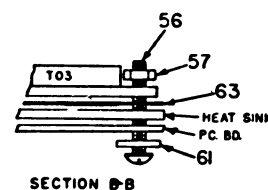


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REVISIONS		
CHK	CHANGE NO	REV

USE TRANSIPAD DEC# 9007201 UNDER Q1 & Q8



1	HEAT SINK	7416236-0-0	55	REF	X-Y COORDINATE HOLE LOCATION	K-CO-5411599-0-4	1		
6	SCREW, #4-40 x 1/2 lg PH HD	9006013-1	56	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5411599-0-5	2		
6	NUT, KEP #4-40	900F557	57	REF	MODULE ECO HISTORY	B-WH-5411599-0-6	3		
1	NUT, HEX #10-32	900F564	58	1	ETCHED CIRCUIT BOARD	5011598	4		
1	WASHER, FLAT	9006662	59	1	C7	CAPACITOR, 100PF, 100V, 5%,	100C016	5	
1	BUSHING, NYLON	9008440	60	6	C2, C3, C8, C30, C24, C25	CAPACITOR, 0.1uf, 100V DISC	1001610-01	6	
6	WASHER, FLAT	9008172	61	3	C9, C27, C28	CAPACITOR, 1uf, 35V, 10% TANT	1001776	7	
A/R	COMPOUND, THERMAL	9008268	62	2	C10, C13	CAPACITOR, 33pf, 100V OM	1000009	8	
3	INSULATOR, TO 3	1213071-02	63	1	C11	CAPACITOR, 15uf, 35V, 10% TANT	1009725	9	
1	WASHER, THERMAFLM	9008124	64	2	C8, C14	CAPACITOR, 0.1uf, 100V, 10% MYLAR	1005784	1	
2	TRANSIPAD	9007201	65	1	C31	CAPACITOR, 220pf, 100V, 5%	1000021	1	
A/R	WIRE #18 AWG, TWISTED PAIR	9107430-02	66	2	C5, C16	CAPACITOR, 1200uf, 63V	1012607-01	1	
1	C29	CAPACITOR, 2.2UF 20V	1002627	57	7	C1, C17, C18, C4, C20, C21, C22	CAPACITOR, 180uf, 50V	1012607-02	1
1	R47	RESISTOR 200, 1/4W, 5%	1311522	68	1	D22	DIODE, IN 4742	1109502	1
1	HARNESS (THREE WIRE)	6-7A 7012547-0-0	69	1	D10	DIODE, MR1033B	1103341	1	
1	HARNESS (TWO WIRE)	6-7A 7012546-0-0	70	10	D1 THRU D7, D14, D15, D21	DIODE, D872	1105275	1	
1	C12	CAPACITOR, 10uf, 20V, 10%, TANT	1004813	71	1	D17	DIODE, IN3880	1109440	1
1	D23	DIODE, IN753A	1102421	72	2	D12, D13	DIODE, IN751, 5.1V 2%	1110713	1
1	C26	CAPACITOR, .47uf, 25V, 20%, CEK	1010279	73	1	D8	DIODE	1110715	1
1	SOLDER, TENS, SCREW MTG.	9007815	74	1	D11	DIODE, IN970B	1110856	2	
1	SIL PAD .800 .190 I.D.	1213071-05	75	1	D19	DIODE, 2N5062	1110968	2	
1	C32	CAP. 1UF 50V CER.	1010274-02	76					

1	Q9,	DIODE, A1140	1112595-01	2
1	F1	FUSE, 15A, PICO	1210929	2
1	R4G	RESISTOR, 18K, 1/4W, 5%	1302465	2
6	R9, R39, R40, R41, R43, R49	RESISTOR, 100, 1/4W, 5%	1300229	2
1	R7	RESISTOR, 100, 1W, 5%	1300232	2
3	R11, R2, R33	RESISTOR, 390, 1/4W, 5%	1300309	2
6	R6, R12, R23, R31, R17, R48	RESISTOR, 1K, 1/4W, 5%	1300369	2
3	R10, R14, R30	RESISTOR, 2.7K, 1/4W, 5%	1300426	2
4	R42, R44, R15, R27	RESISTOR, 4.7K, 1/4W, 5%	1300447	3
1	R4	RESISTOR 1K, 1W, 5%	1300368	3
3	R16, R29, R38,	RESISTOR, 10K, 1/4W, 5%	1300479	3
2	R3, R35	RESISTOR, 10, 1/4W, 5%	1301317	3
1	R45	RESISTOR, 470 1/4W, 5%	1300316	3
1	R5	RESISTOR, 27, 1/4W, 5%	1301522	3
1	R34	RESISTOR, 330, 2W, 10%	1301961	3
1	R19	RESISTOR, 2K, 1/4W, 5%	1302388	3
2	R18, R26	RESISTOR, 103K, 1/4W, 5%	1302488	3
1	R22	RESISTOR, 2.74K, 1/4W, 1"	1304998	3
2	R1, R32	RESISTOR, 1, 2W, 5% WW	1305428	4
2	R24, R25	RESISTOR, 1.5K, 1/4W, 5%	1300391	4
1	R21	RESISTOR, 8.25K, 1/4W, 1%	1309420	4
2	R8, R37	RESISTOR, .08, 5W, 3% WW	1311603	4
1	R20	RESISTOR, .56, 1/4W, 5%	1302602	4
2	Q1, Q8	TRANSISTOR, 2N4838	1509700	4
7	Q3, Q5, Q6, Q7, Q9, Q12, Q13	TRANSISTOR, XA85	1510705	4
1	Q4	TRANSISTOR, XA55	1510706	4
1	D18	TRANSISTOR, C32AX135	1510928	4
2	Q2, Q10	TRANSISTOR, 2N5038	1510989	4
1	Q11	TRANSISTOR, 2N5433	1511686	5
2	L1, L2	INDUCTOR, 500uh	1612593	5
2	E1, E3	I.C DEC 301A	1910282	5
2	E2, E4	I.C DEC 555	1911844	5
1	J1	CABLE ASSY	7011414 -OE	5

QTY	REF. DESIGNATION	DESCRIPTION	PART NO	N
PARTS LIST				
ETCH BOARD REV.	D			
		DRM <i>Drumelle</i>	DATE <i>1/7/77</i>	digital
		CHRG <i>Charg</i>	DATE	
		ENGL <i>Engl</i>	DATE <i>1/10/77</i>	
		PROJ. ENGR <i>Proj. Engr</i>	DATE <i>1/10/77</i>	
		PROD. <i>Prod.</i>	DATE <i>1/10/77</i>	
		NEXT HIGHER ASSY		
DEC NO.	EIA NO	E-UA-H777-0-0		TITLE +20V REGULATOR/H777
CONVERSION CHART		SCALE <i>1/1</i>	SIZE CODE D CS	NUMBER 5411599 0 1
		SHEET 1	OF 2	REV J

[illegible][illegible]

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D

C

B

TITLE		+20V REGULATOR/H777		SIZE	CODE	NUMBER				REV.
				D	CS	5411599-0-1				J
SCALE	1/16	SHEET	2	OF	2	DIST.				

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION												
PARTS LIST															
MADE BY <i>J. Kelly</i>		CHECKED D. HEALY	SECTION												
DATE <i>19 Jun 76</i>		DATE 29 JUL 76	1												
ENG <i>R. Barry</i>		PROD <i>R. Barry</i>	ISSUED SECT.												
DATE <i>26 Aug 76</i>		DATE <i>26 Aug 76</i>	1												
ITEM NO	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB					
23	C-IA-7413773-0-0	BRACKET, PAN	2	2	2	2	2	2	2	2					
24	1210984-05	INS SHEET 9.0 ± .1 x 1.5 ± .1	A/RA/RA/RA/RA/RA/RA/RA/R												
25	B-DC-7414744-0-0	DECAL H777 P.S.	1	1	1	1	-	-	-	-					
26	A-PS-3612680-0-0	DECAL, CHASSIS GROUND	2	2	2	2	2	2	2	2					
27	C-IA-7011412-0F	CABLE, CHASSIS GROUND	1	1	1	1	1	1	1	1					
28	C-IA-7011412-1H	CABLE, CONSOLE GROUND	-	-	-	-	1	1	1	1					
29	D-CS-5411599-0-1	CORE REG. H777	1	1	-	-	1	1	-	-					
30	9007015	GROMMET	-	-	-	-	1	1	1	1					
31	D-IA-7417407-0-0	CHASSIS P.S.	-	-	-	-	1	1	1	1					
32	D-AD-7012910-0-0	A/C INPUT ASSY (120V)	-	-	-	-	1	-	1	-					
33	D-AD-7012910-1-0	A/C INPUT ASSY (230V)	-	-	-	-	1	-	1	-					
34	E-IA-7417018-0-0	COVER, POWER SUPPLY	-	-	-	-	1	1	1	1					
35	A-PS-1213773-0-0	AC RECEPTACLE	-	-	-	-	1	1	1	1					
36	A-PS-1212877-0-0	FILTER	-	-	-	-	1	1	1	1					
37	D-AD-7012909-0-0	+5V REGULATOR ASSY	-	-	-	-	1	1	1	1					
38	9009771-1-0	CABLE CLAMP	-	-	-	-	2	2	2	2					
39	9006024-01	SCREW, PAN #6 - 32 x .50	-	-	-	-	1	1	1	1					
40	9008404-2	SCR PHIL FLAT HD #6 - 32 x .31	4	4	4	4	1	1	1	1					
41	9107253-02	TUBING, SHRINK (ORN)	-	-	-	-	A/RA/RA/RA/RA/R								
42	C-IA-7417288-0-0	WIRE A.C. CONN. HARNESS	-	-	-	-	REF	REF	REF	REF					
43	B-DC-7414744-1-0	DECAL H777 P.S.	-	-	-	-	1	1	1	1					
44	9006037-1	SCR, PHIL PAN HD #8 - 32 x .38	-	-	-	-	1	1	1	1					
TITLE POWER SUPPLY ASSY (H777)			ASSY NO. E-UA-H777-0-0		SIZE CODE A PL	NUMBER H777-0-0		REV N	ECO NO						
SHEET 2 OF 3			DIST.												

DEC FORM DEC 16-(325)-1031-N870
DRA 110

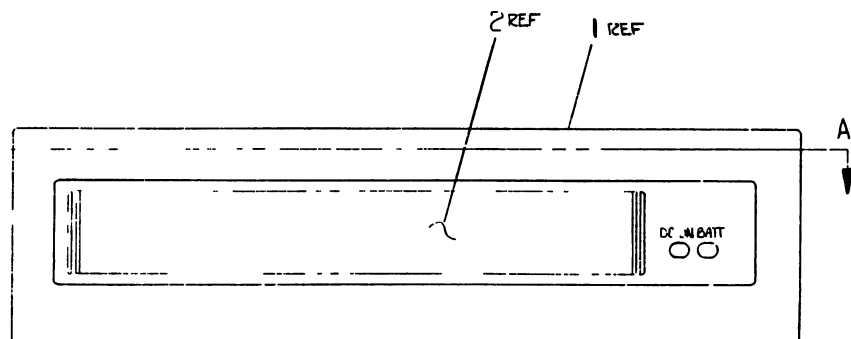
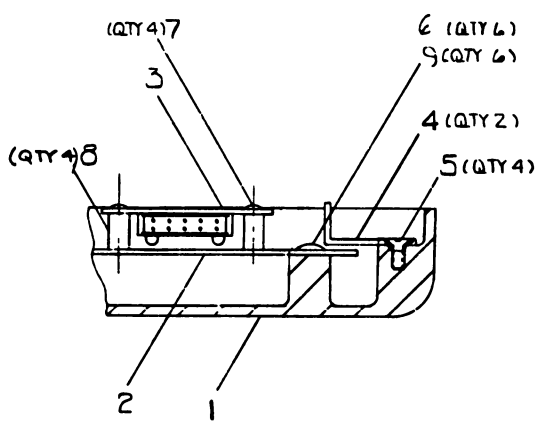
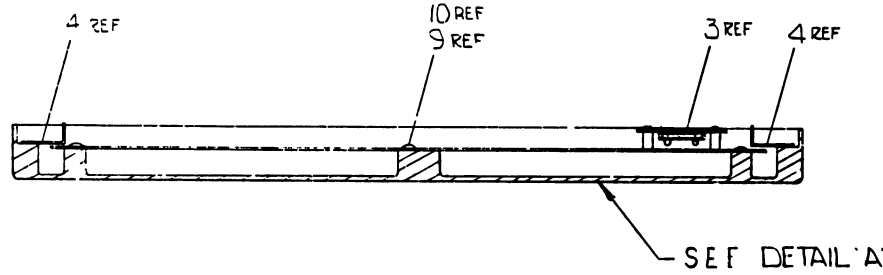
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION												
PARTS LIST															
MADE BY		CHECKED D. HEALY	SECTION												
DATE		DATE 29 JUL 76	1												
ENG <i>R. Barry</i>		PROD <i>R. Barry</i>	ISSUED SECT.												
DATE <i>26 Aug 76</i>		DATE <i>26 Aug 76</i>	1												
ITEM NO	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB					
45	9006634	WASHER INT. TOOTH LOCK #8	-	-	-	-	1	1	1	1					
46	D-IA-7013218-1	AC POWER CORD W/LABLE (120V)	-	-	-	-	1	1	1	1					
47	9006011-1	SCR PH HD PAN #4 - 40 x .38	-	-	-	-	2	2	2	2					
48	9006632	WASHER INT. TOOTH LOCK #4	-	-	-	-	2	2	2	2					
49	9008020-02	SCR, PHIL FLAT HD. #6-32 x .18	1	1	1	1	-	-	-	-					
50	7011411-1L	CABLE, CONSOLE CONTROL	-	-	-	-	REF	REF	REF	REF					
51	9006022-03	SCR. PHIL. TRUSS #6-32 x .38	-	-	-	-	4	4	2	2					
52	C-IA-7013938-1	CABLE JUMPER	-	-	-	-	1	1	1	1					
53	C-IA-7013938-0	CABLE JUMPER	-	-	-	-	1	1	1	1					
54	C-IA-7013939-0	CABLE GROUNDING	-	-	-	-	1	1	1	1					
55	C-IA-7420323-00	AC POWER CORD W/LABLE (120V)	-	-	-	-	1	-	1	-					
56	C-IA-7420323-01	AC POWER CORD W/LABLE (240V)	-	-	-	-	1	-	1	-					
57	9006656	WASHER, FLAT	4	4	2	2	3	3	1	1					
58	9006025-01	SCR, PAN PHIL #6-32 x 5/8	3	3	3	3	3	3	3	3					
59	9006560	NUT, KEP #6-32	3	3	3	3	3	3	3	3					
60	7011412-3C	CABLE ASSY	1	1	1	1	-	-	-	-					
61	9006561	NUT, HEX #9-32	1	1	1	1	-	-	-	-					
62	7011414-1F	CABLE, CONSOLE CONTROL	REF	REF	REF	REF	-	-	-	-					
63	9009255-00	LABEL	1	1	1	1	1	1	1	1					
64	3614833-	LABEL, WARNING	-	-	-	-	1	1	1	1					
TITLE POWER SUPPLY ASSY (H777)			ASSY NO. E-UA-H777-0-0		SIZE CODE A PL	NUMBER H777-0-0		REV N	ECO NO						
SHEET 3 OF 3			DIST.												

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION												
PARTS LIST															
MADE BY <i>A. Nick</i>		CHECKED D. HEALY	SECTION												
DATE <i>19 Jun 76</i>		DATE 29 JUL 76	1												
ENG <i>R. Barry</i>		PROD <i>R. Barry</i>	ISSUED SECT.												
DATE <i>26 Aug 76</i>		DATE <i>26 Aug 76</i>	1												
ITEM NO	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB					
1	D-IA-7011248-0-0	CHASSIS ASSY P.S.	1	1	1	1	-	-	-	-					
2	9007031-05	TIE WRAP	A/RA/RA/RA/RA/RA/RA/RA/R												
3	D-AD-7011075-0-0	A/C INPUT ASSY (120V)	1	-	1	-	-	-	-	-					
4	D-AD-7011075-1-0	A/C INPUT ASSY (230V)	-	1	-	1	-	-	-	-					
5	9007035	GROMMET CAT.	A/RA/RA/RA/RA/RA/RA/RA/R												
6	9006563	NUT, KEPS #8 - 32	2	2	2	2	2	2	2	2					
7	E-MD-7413825-0-0	COVER, POWER SUPPLY	1	1	1	1	-	-	-	-					
8	D-AD-7011073-0-0	+5V REGULATOR ASSY	1	1	1	1	-	-	-	-					
9	D-CS-5411601-0-1	MOS. REC. H777	1	1	1	1	1	1	1	1					
10	9006021-01	SCR. PHL HD PAN #6 - 32 x .31	4	4	2	2	3	3	1	1					
11	9000509	STRAIN RELIEF	1	1	1	1	-	-	-	-					
12	D-IA-7012320-0	POWER CORD (115V)	1	-	1	-	-	-	-	-					
13	D-IA-7012320-1	POWER CORD (230V)	-	1	-	1	-	-	-	-					
14	9006022-1	SCR, PHIL HD PAN #6-32 x .38	6	6	4	4	7	7	2	2					
15	9006633	WASHER, INT. TOOTH #6	10	10	6	6	3	3	1	1					
16	9009771-02	CLAMP	2	2	2	2	-	-	-	-					
17	1209403-01	FAN, BOXER 115V, 50/60 HZ	1	1	1	1	1	1	1	1					
18	9006020-2	SCR, PHIL FLAT HD #6 - 32 x .25	2	2	2	2	4	4	2	2					
19	9008185	NUT, KEPS #6 - 32	-	-	-	-	2	2	2	2					
20	9006023-1	SCR, PHIL HD PAN #6 - 32 x .44	4	4	4	4	4	4	4	4					
21	9006074-3	SCR, PHIL TRUSS #10 - 32 x .62	4	4	4	4	4	4	4	4					
22	9007651	WASHER, EXT. TOOTH #10	4	4	4	4	4	4	4	4					
TITLE POWER SUPPLY ASSY (H777)			ASSY NO. E-UA-H777-0-0		SIZE CODE A PL	NUMBER H777-0-0		REV N	ECO NO H777-ML 006						
SHEET 1 OF 3			DIST.												

DEC FORM DEC 16-(325)-1031-N870

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NOTES:
1. TO SELECT STAND BY/MODE, ON MODE OR OFF MODE SEE D-CS-5411501-0-1.



6	SCREW PAN HD PHIL #8-32 x .31 LG	9006036-1	9
4	SPACER, 25 DY 6-32 x .44 LG	9009635	8
4	SCREW, PAN HD, PHIL #8-32 x .19 LG	9008020-1	7
6	WASHER, INT. TOOTH #8	9006634	6
4	SCR FLAT HD PHIL #8-32 x .25	9006035-02	5
2	BRACKET SUPPORT FILTER	C MD-744962-1-0	4
1	CONT. EXP. BOX (BATT-1)	D-VA-5411501-0-0	3
1	PANEL EXPANDER BOX	B-IA-7017321-0-0	2
1	BEZEL	E-MD-7416747-0-0	1

		DESCRIPTION		DWG / PART NO		ITEM NO	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES ±0° 30'		CLASS OF ACCURACY		NOMINAL DIMENSION RANGE INCHES			
SURFACE QUALITY IN		(CHECK ONE)		OVER	OVER	OVER	OVER
				TO	TO	TO	TO
QUANTITY & VARIATION		MEDIUM ☐		±.004	±.008	±.012	±.018
				±.024	±.04	±.063	±.1
MICROINCHES		PREFERRED ☐		±.012	±.018	±.025	±.04
				±.063	±.1	±.156	±.25

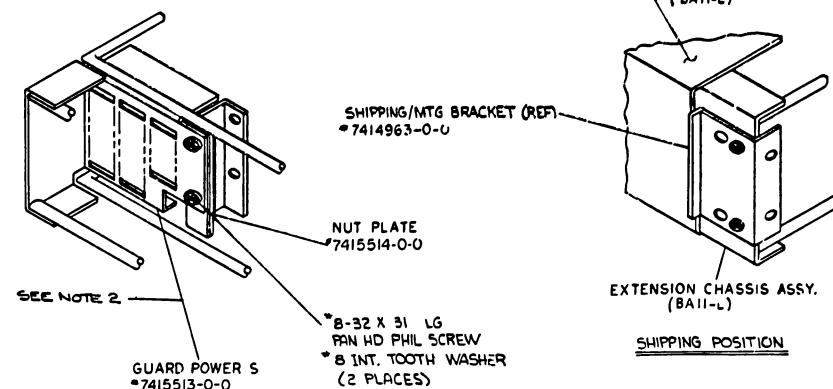
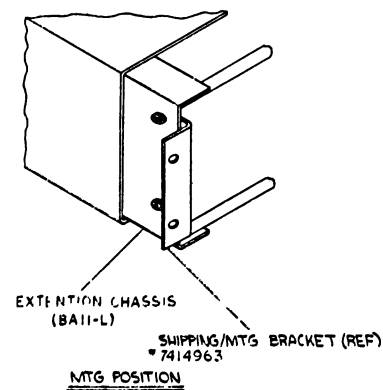
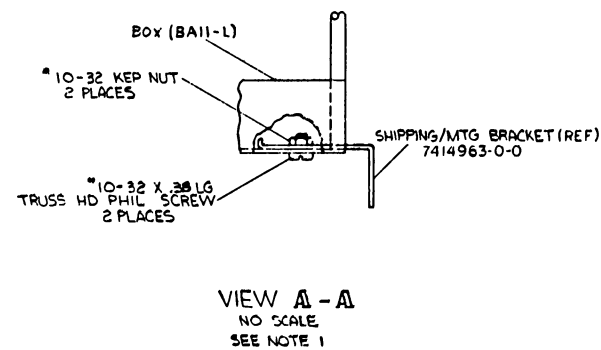
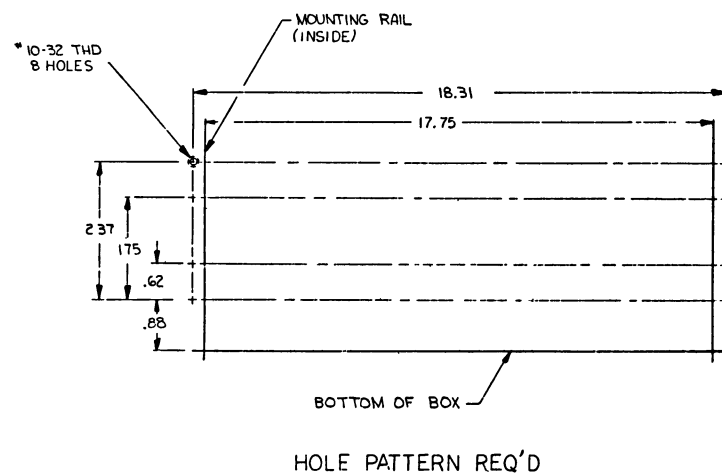
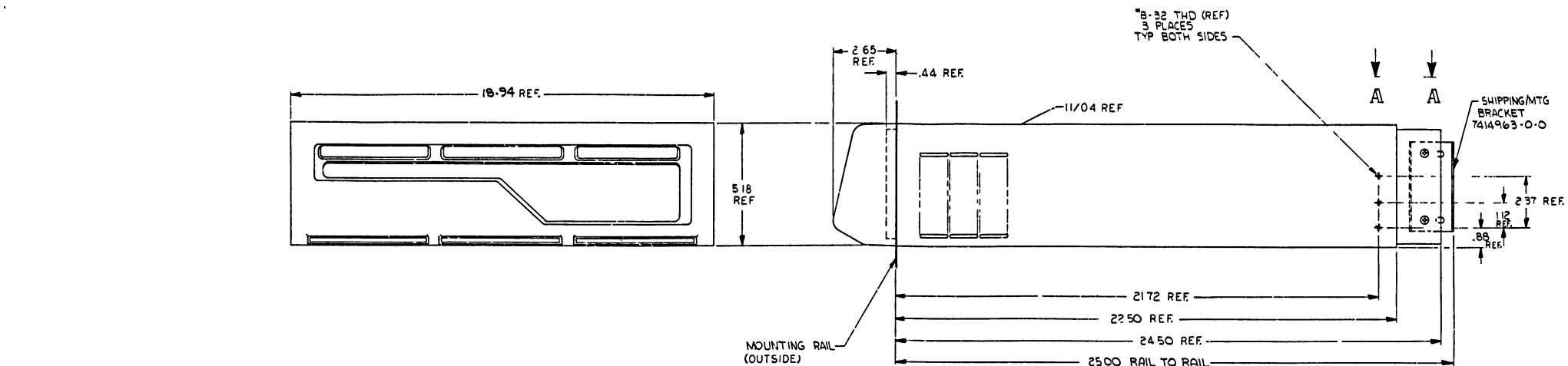
THIRD ANGLE PROJECTION	DRN <i>[Signature]</i>	FIRST USED ON	11 04
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i>	TITLE	
DO NOT SCALE DWG	PROJ. ENG <i>[Signature]</i>	CONSOLE ASSY EXPANDER BOX	
MATERIAL	PROD <i>[Signature]</i>	SIZE	CODE
SEE PARTS LIST	NEXT HIGHER ASSY.	NUMBER	REV.
FINISH	E-VA-8011-L-0	D	A
	SCALE 1/2	DIST.	
	SHEET 1 OF 1		

REVISIONS		
CHK	CHANGE NO.	REV
1	7012540-00001	A
11/22/77 E. J. O. A. 671		
PLORUSSO		
Paul Plorussso 2 Sept 77		

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NOTES:

- 1 SHOWN IN MTG BRACKET POSITION ALSO SHOWN 130-METRIC OF SKT IN MTG POSITION, SHIPPING POSITION.
- 2 BECAUSE OF UL REQUIREMENTS THE REAR OF THE FORWARD SUPPLY MUST BE COVERED, THE GUARD SHOWN IS TO BE INSTALLED ON UNITS THAT DON'T HAVE THE NEW PWP SUPPLY WITH CLOSED ENDS. THERE SHOULD BE APPROX. 500 UNITS THAT WILL REQUIRE THIS RETROFIT.



DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLE		CLASS OF		NOMINAL DIM	
OF 90°		ACCURACY		REIN INCHES	
SURFACE		QUALITY		FINISH	
IN		IN		IN	
MICROMETERS		PREFERRED		PREFERRED	
QUANTITY & VARIATION		PREFERRED		PREFERRED	
THIRD ANGLE PROJECTION		FIRST USED ON		11/04	
CHECKED BY		DATE		11/04	
ENG. NO.		DATE		11/04	
PROJ. ENG. NO.		DATE		11/04	
PRCD		DATE		11/04	
DO NOT SCALE DWG		NEXT HIGHER ASSY		NEXT HIGHER ASSY	
MATERIAL		SIZE CODE		NUMBER	
FINISH		SCALE		NO. OF	
SHEET		OF		DIST	

INSTALLATION
AID

7012588 0-0

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~~THIS IS PRINT SET~~

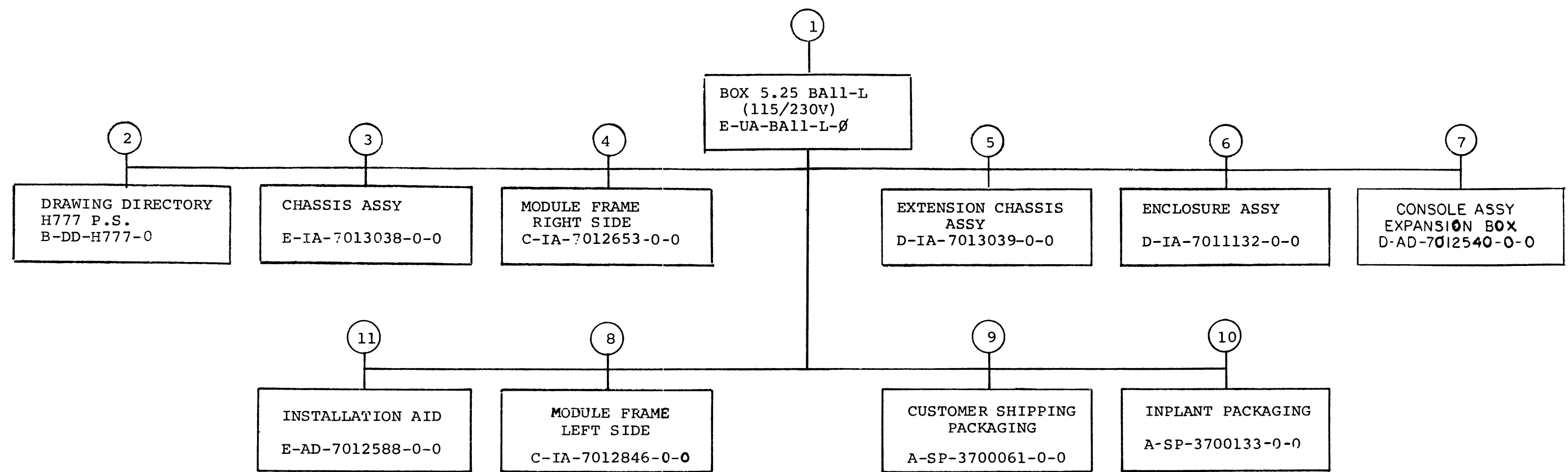
SEQUENCE

UNIT VARIATIONS

PRINT SET

REVISIONS				
DATE	CHG. NO.	REV		
1-76	BAIL-L-4	A		
2-76	BAIL-6	B		
1-77	BAIL-7	C		
3-77	BAIL-8	D		
4-77	BAIL-9	E		
5-77	BAIL-L-10	F		
7-77	BAIL-11	H		

USED ON OPTION/MODEL		DRN. G. MARINI	DATE 9/3/75	TITLE DRAWING DIRECTORY BALL-L							
11/04		CHK'D.	DATE								
11/34		D. HEALY	9/30/75								
		PROJ. ENG. R Barry	DATE 10-22-75								
		PROD. RK Peter	DATE 10/22/75	SIZE B	CODE DD	NUMBER BALL-L				REV H	
		FIELD SERV.	DATE	DIST							
SHEET 1 OF 4											



TITLE	DRAWING DIRECTORY Ball-L	SHEET 2 OF 4	SIZE	CODE	NUMBER	REV
			B	DD	Ball-L	H

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FIELD MAINTENANCE PRINT SET

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FIELD MAINT. PRINT SET H777-0
POWER SUPPLY H777-0 SH2
POWER SUPPLY H777-0 (PL)
+5V REGULATOR ASSY.
+5V REG. ASSY. (PL)
BOARD, POWER DISTRIBUTION H777
H777 +5V REGULATOR
AC INPUT ASSY
AC INPUT ASSY (PL)
MOS REGULATOR H777
CORE REGULATOR H777

B-TC-H777-0-2
E-UA-H777-0-0
A-PL-H777-0-0
D-AD-7012909-0-0
A-PL-7012909
D-CS-5411586-0-1
D-CS-5412667-0-1
D-AD-7012910-0-0
A-PL-7012910-0-0
D-CS-5411601-0-1
D-CS-5411599-0-1

UNIT VARIATIONS COVERED BY THIS PRINT SET

H777-CA	(CORE/MOS)
H777-CB	(CORE/MOS)
H777-DA	(MOS ONLY)
H777-DB	(MOS ONLY)

H777-0 VOL.2
**Field Maintenance
Print Set**

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00309

REVISIONS			USED ON OPTION/MODEL		DRN.	DATE	TITLE:											
DATE	CHG. NO.	REV.					FIELD MAINTENANCE PRINT SET H777-0											
JAN-77	H777-2	-			BA11-LA	BA11-LK	21 Feb 77	18 Jan 77	digital									
					BA11-LB	BA11-LL	CHK'D	DATE										
					BA11-LC	BA11-LM	KIT	19 JAN 77										
					BA11-LD	BA11-LN												
					BA11-LE		PROJ. ENG.	DATE	SIZE B CODE TC NUMBER H777-0-2 REV. E									
					BA11-LF			25 JAN 77										
					BA11-LH		FIELD SERV.	DATE										
					BA11-LJ		27 Jan 77											
			SHEET 1 OF 1															

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION														
PARTS LIST																	
MADE BY <i>R. Barry</i>		CHECKED D. HEALY	SECTION														
DATE <i>19 Aug 76</i>		DATE 29 JUL 76	1														
ENG <i>R. Barry</i>		PROD <i>R. Barry</i>	ISSUED SECT.														
DATE <i>26 Aug 76</i>		DATE <i>26 Aug 76</i>	1														
ITEM NO	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB							
23	C-IA-7413773-0-0	BRACKET, FAN	2	2	2	2	2	2	2	2							
24	1210984-05	INS SHEET 9.0±.1 X 1.5±.1	A/	RA/	RA/	RA/	RA/	RA/	RA/	RA/	R						
25	B-DC-7414744-0-0	DECAL H777 P.S.	1	1	1	1	-	-	-	-							
26	A-PS-3612680-0-0	DECAL, CHASSIS GROUND	2	2	2	2	2	2	2	2							
27	C-IA-7011412-0F	CABLE, CHASSIS GROUND	1	1	1	1	1	1	1	1							
28	C-IA-7011412-1H	CABLE, CONSOLE GROUND	-	-	-	-	1	1	1	1							
29	D-CS-5411599-0-1	CORE REG. H777	1	1	-	-	1	1	-	-							
30	9007015	GROMMET	-	-	-	-	1	1	1	1							
31	D-IA-7417407-0-0	CHASSIS P.S.	-	-	-	-	1	1	1	1							
32	D-AD-7012910-0-0	A/C INPUT ASSY (120V)	-	-	-	-	1	-	1	-							
33	D-AD-7012910-1-0	A/C INPUT ASSY (230V)	-	-	-	-	1	-	1	-							
34	E-IA-7417018-0-0	COVER, POWER SUPPLY	-	-	-	-	1	1	1	1							
35	A-PS-1213773-0-0	AC RECEPTACLE	-	-	-	-	1	1	1	1							
36	A-PS-1212877-0-0	FILTER	-	-	-	-	1	1	1	1							
37	D-AD-7012909-0-0	+5V REGULATOR ASSY	-	-	-	-	1	1	1	1							
38	9009771-1-0	CABLE CLAMP	-	-	-	-	2	2	2	2							
39	9006024-01	SCREW, PAN #6 - 32 x .50	-	-	-	-	1	1	1	1							
40	9008404-2	SCR PHIL FLAT HD #6 - 32 x .31	4	4	4	4	11	11	11	11							
41	9107258-02	TUBING, SHRINK (ORN)	-	-	-	-	A/	RA/	RA/	RA/	R						
42	C-IA-7417288-0-0	WIRE A.C. CONN. HARNESS	-	-	-	-	REF	REF	REF	REF							
43	B-DC-7414744-1-0	DECAL H777 P.S.	-	-	-	-	1	1	1	1							
44	9006037-1	SCR, PHIL PAN HD #8 - 32 x .38	-	-	-	-	1	1	1	1							
TITLE POWER SUPPLY ASSY (H777)			ASSY NO. E-UA-H777-0-0		SIZE CODE A PL	NUMBER H777-0-0		REV N	ECO NO.								
SHEET 2 OF 3			DIST.														

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION														
PARTS LIST																	
MADE BY		CHECKED D. HEALY	SECTION														
DATE		DATE 29 JUL 76	1														
ENG <i>R. Barry</i>		PROD <i>R. Barry</i>	ISSUED SECT.														
DATE		DATE <i>26 Aug 76</i>	1														
ITEM NO	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB							
45	9006634	WASHER INT. TOOTH LOCK #8	-	-	-	-	1	1	1	1							
46	B-IA-7017711-1	AC POWER CORD W/LABLE 120V	-	-	-	-	1	1	1	1							
47	9006011-1	SCR PH HD PAN #4 - 40 x .38	-	-	-	-	2	2	2	2							
48	9006632	WASHER INT. TOOTH LOCK #4	-	-	-	-	2	2	2	2							
49	9008020-02	SCR, PHIL FLAT HD. #6-32 x .18	1	1	1	1	-	-	-	-							
50	7011411-1L	CABLE, CONSOLE CONTROL	-	-	-	-	REF	REF	REF	REF							
51	9006022-03	SCR. PHIL. TRUSS #6-32 x .38	-	-	-	-	4	4	2	2							
52	C-IA-7013938-1	CABLE JUMPER	-	-	-	-	1	1	1	1							
53	C-IA-7013938-0	CABLE JUMPER	-	-	-	-	1	1	1	1							
54	C-IA-7013939-0	CABLE GROUNDING	-	-	-	-	1	1	1	1							
55	C-IA-7420323-00	AC POWER CORD W/LABLE (120V)	-	-	-	-	1	-	1	-							
56	C-IA-7420323-01	AC POWER CORD W/LABLE (240V)	-	-	-	-	1	-	1	-							
57	9006656	WASHER, FLAT	4	4	2	2	3	3	1	1							
58	9006025-01	SCR, PAN PHIL #6-32 x 5/8	3	3	3	3	3	3	3	3							
59	9006560	NUT, KEP #6-32	3	3	3	3	3	3	3	3							
60	7011412-3C	CABLE ASSY	1	1	1	1	-	-	-	-							
61	9006561	NUT, HEX #8-32	1	1	1	1	-	-	-	-							
62	7011414-1F	CABLE, CONSOLE CONTROL	REF	REF	REF	REF	-	-	-	-							
63	9009255-00	LABEL	1	1	1	1	1	1	1	1							
64	3614833-	LABEL, WARNING	-	-	-	-	1	1	1	1							
TITLE POWER SUPPLY ASSY (H777)			ASSY NO. E-UA-H777-0-0		SIZE CODE A PL	NUMBER H777-0-0		REV N	ECO NO.								
SHEET 3 OF 3			DIST.														

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION														
PARTS LIST																	
MADE BY <i>R. Barry</i>		CHECKED D. HEALY	SECTION														
DATE <i>19 Aug 76</i>		DATE 29 JUL 76	1														
ENG <i>R. Barry</i>		PROD <i>R. Barry</i>	ISSUED SECT.														
DATE <i>26 Aug 76</i>		DATE <i>26 Aug 76</i>	1														
ITEM NO	DWG NO. / PART NO.	DESCRIPTION	H777-AA	H777-AB	H777-BA	H777-BB	H777-CA	H777-CB	H777-DA	H777-DB							
1	D-IA-7011248-0-0	CHASSIS ASSY P.S.	1	1	1	1	-	-	-	-							
2	9007031-05	TIE WRAP	A/	RA/	RA/	RA/	RA/	RA/	RA/	RA/	R						
3	D-AD-7011075-0-0	A/C INPUT ASSY (120V)	1	-	1	-	-	-	-	-							
4	D-AD-7011075-1-0	A/C INPUT ASSY (230V)	-	1	-	1	-	-	-	-							
5	9007035	GROMMET CAT.	A/	RA/	RA/	RA/	RA/	RA/	RA/	RA/	R						
6	9006563	NUT, KEPS #8 - 32	2	2	2	2	2	2	2	2							
7	E-MD-7413825-0-0	COVER, POWER SUPPLY	1	1	1	1	-	-	-	-							
8	D-AD-7011073-0-0	+5V REGULATOR ASSY	1	1	1	1	-	-	-	-							
9	D-CS-5411601-0-1	MOS. REC. H777	1	1	1	1	1	1	1	1							
10	9006021-01	SCR. PHL HD PAN #6 - 32 x .31	4	4	2	2	3	3	1	1							
11	9008509	STRAIN RELIEF	1	1	1	1	-	-	-	-							
12	D-IA-7012320-0	POWER CORD (115V)	1	-	1	-	-	-	-	-							
13	D-IA-7012320-1	POWER CORD (230V)	-	1	-	1	-	-	-	-							
14	9006022-1	SCR, PHIL HD PAN #6-32 x .38	6	6	4	4	7	7	7	7							
15	9006633	WASHER, INT. TOOTH #6	10	10	6	6	3	3	1	1							
16	9009771-02	CLAMP	2	2	2	2	-	-	-	-							
17	1209403-01	FAN, BOXER 115V, 50/60 HZ	1	1	1	1	1	1	1	1							
18	9006020-2	SCR., PHIL FLAT HD #6 - 32 x .25	7	7	7	7	7	7	7	7							
19	9008185	NUT, KEPS #6 - 32	-	-	-	2	2	2	2	2							
20	9006023-1	SCR., PHIL HD PAN #6 - 32 x .44	4	4	4	4	4	4	4	4							
21	9006074-3	SCR., PHIL TRUSS #10 - 32 x .62	4	4	4	4	4	4	4	4							
22	9007651	WASHER, EXT. TOOTH #10	4	4	4	4	4	4	4	4							
TITLE POWER SUPPLY ASSY (H777)			ASSY NO. E-UA-H777-0-0		SIZE CODE A PL	NUMBER H777-0-0		REV N	ECO NO. H777-ML006								
SHEET 1 OF 3			DIST.														

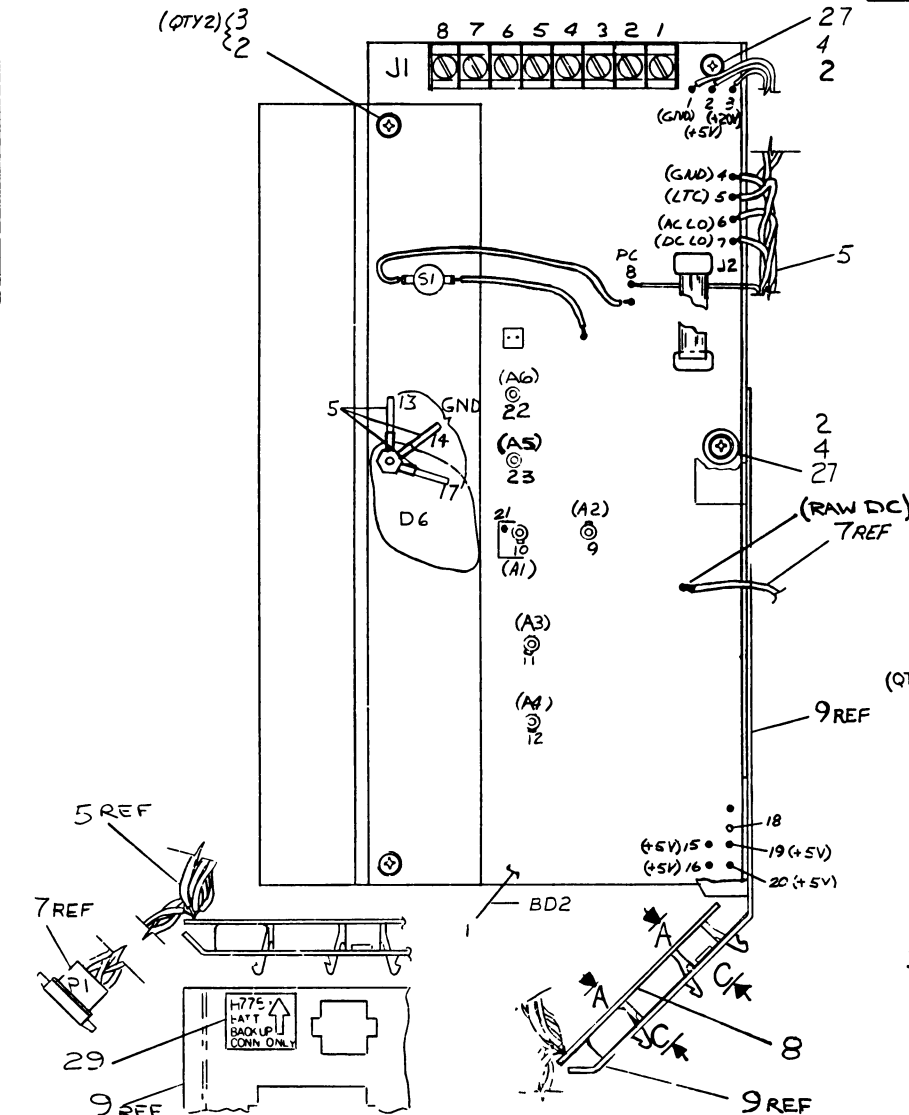
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WIRE CHART

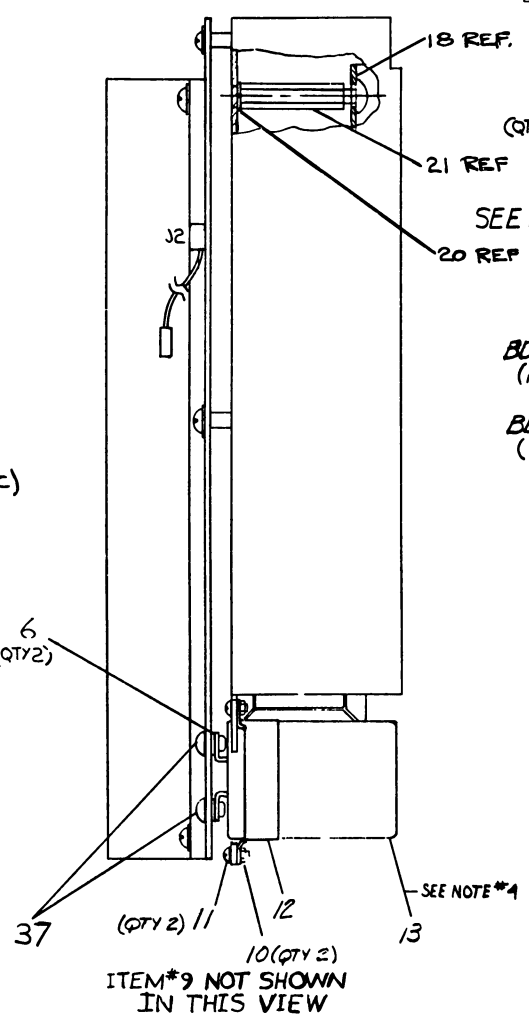
ITEM NO	DESCRIPTION		FROM		TO	
	AWG	COLOR	POINT NO	CONN	POINT NO	CONN
5	20	WHT	1	BD2-8	18	BD1-15
	14	BRN	2	2	9	1
	14	BLK	3	1	12	5
	14	ORN	4	3	13	7
	20	BRN	5	5	19	14
	20	BLK	6	4	20	16
7	20	YEL	7	6	16	12
	20	VIO	8	7	17	13
	14	BLK	30	BD2-17	10	BD1-3
	14	RED	28	BD2-13	11	BD1-4
	14	RED	29	15	14	9
	14	RED	26	19	15	10
25	14	RED	25	14	21	17
	14	RED	24	16	22	19
	14	RED	27	BD2-20	23	BD1-20
	18	BLU	1	BD1-21	*11	-
	14	BLK	2	BD1-18	*8	-
	18	RED	3	BD1-11	*14	-
31	14	RED	-	BD2-22	-	C2(+)
	18	GRY	4	BD1-8	*9	-
	18	WHT	5	BD1-6	*10	-
	14	RED	6	BD2-21	*13	-
	18	GRN	7	BD1-2	12	-
	14	GRN	-	C1(+)	-	C2(+)
23	14	GRN	-	C1(-)	-	C2(-)
	14	RED	-	BD2-10	-	C1(+)
	14	BLK	-	BD2-9	-	C1(-)
	-	BARE	-	-	-	BD2-11
	-	BARE	-	-	-	BD2-12
	14	BLK	-	BD2-23	-	C2(-)

NOTES:

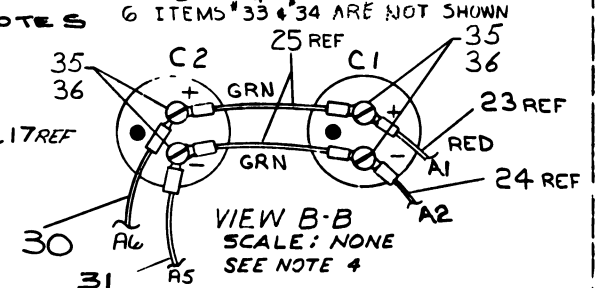
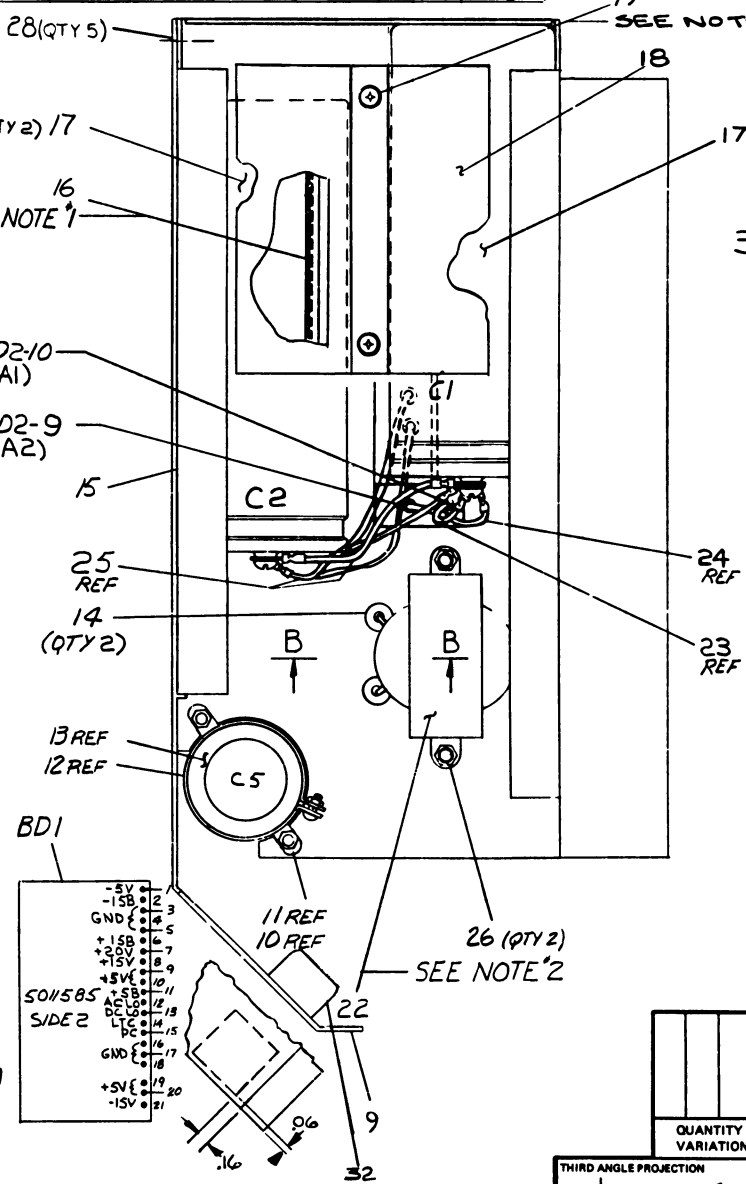
- USE ITEM #16 (GROMMET) TO COVER RAW METAL EDGES UNDER CAPACITORS.
- LEADS FROM ITEMS #22, 23 & 24 ARE TO BE CUT FLUSH WITH TOP OF CLAMPS ON ITEM #1. A1, A2, A3 & A4
- * ASTERISK INDICATES THAT THESE CONN. ALREADY HAVE BEEN MADE ON PLUG P1 ON HARNESS D-1A-7011560-0-C THEY ARE SHOWN FOR REF ONLY.
- ITEMS #17 & #13 ARE TO HAVE THEIR ELECTRICAL CONNECTIONS TORQUED TO 12 IN-LBS (-0, +10) IN-LBS.
- BRING SCREW TO A NO SLACK POSITION, THEN TIGHTEN WITH 1/2 TO 3/4 TURN ONLY.
- ITEMS #33 & #34 ARE NOT SHOWN



VIEW C-C



VIEW A-A
SCALE: NONE
(WIRING SIDE)



OFF SHEET PARTS LIST SEE A-PL-7012909-0-0

DESCRIPTION	DWG PART NO.	ITEM NO.
BUMPER	9009624	32
JUMPER, BLK	B-1A-7011802-0-0	31
JUMPER, RED	B-1A-7011801-0-0	30
DECAL, BATT BACKUP	A-DC-7416911-00	29
SCR FLAT HD #6-32 X.25	9006020-2	28
WASHER NYLON #8	9006708	27
NUT KERS #8-32	9006565	26
JUMPER (GRN)	B-1A-7011800-0-0	25
JUMPER (BLK)	B-1A-7011802-0-0	24
JUMPER (RED)	B-1A-7011801-0-0	23
CHOKE	1613584	22
SPACER HEX #6-32 X1.25	9009603	21
WASHER INT TOOTH LOCK #8	9006634	20
SCR PHIL HD TRUSS #8-32 X.384	9009836-1	19
CLAMP CAPACITOR	C-MD-7417400-0-0	18
CAPACITOR 24 KUF 50V	1010702	17
GROMMET CATERPILLAR	9007035	16
BRACKET CAPACITOR	E-1A-7413743-1-0	15
GROMMET RUBBER	9007017	14
CAPACITOR 3700UF/6.0V(ES)	1012740-00	13
CLAMP CAPACITOR	9009052	12
SCR PHIL HD #6-32 X.25L	9006020-1	11
NUT KERS #6-32	9008185	10
PLATE, CAPACITOR CONN SIDE	D-1A-7417817-0-0	9
BOARD, PWR DISTR. H777	D-CS-541586-0-1	8
HARNESS BD NOS REG PWR DISTR	D-1A-7011560-0-0	7
WASH 1375 O.D. X 137 ID X 0.36	9006660	6
HARNESS H777 +5V REG	D-1A-7011415-0-0	5
SCR PHIL HD PAN #6-32 X.31L	9006021-1	4
SCR PHIL HD PAN #6-32 X.50L	9006024-1	3
WASHER, INT TOOTH LOCK #6	9006633	2
H777 +5V REG (REV & UP)	D-CS-5412667-0-1	1

QUANTITY & VARIATION		DESCRIPTION		DWG PART NO.		ITEM NO.	
THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
REMOVE BURRS AND BREAK SHARP CORNERS		ANGLES 30° 30'		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE INCHES	
DO NOT SCALE DWG		SURFACE QUALITY IN		MEDIUM		OVER 0.25 TO 1.25	
MATERIAL		FINISH		MICROINCHES		1.25 TO 2.50	
FINISH		THIRD ANGLE PROJECTION		PREFERRED		2.50 TO 5.00	
D-1A-H777-0-0		FIRST USED ON		H777-CLD		5.00 TO 10.00	
SCALE		TITLE		+5V REG ASSY		10.00 TO 20.00	
SHEET / OF /		SIZE CODE		D AD		20.00 TO 40.00	
		NUMBER		7012909-0-0		40.00 TO 60.00	
		REV.		E		60.00 TO 80.00	
		DIST.				80.00 TO 100.00	

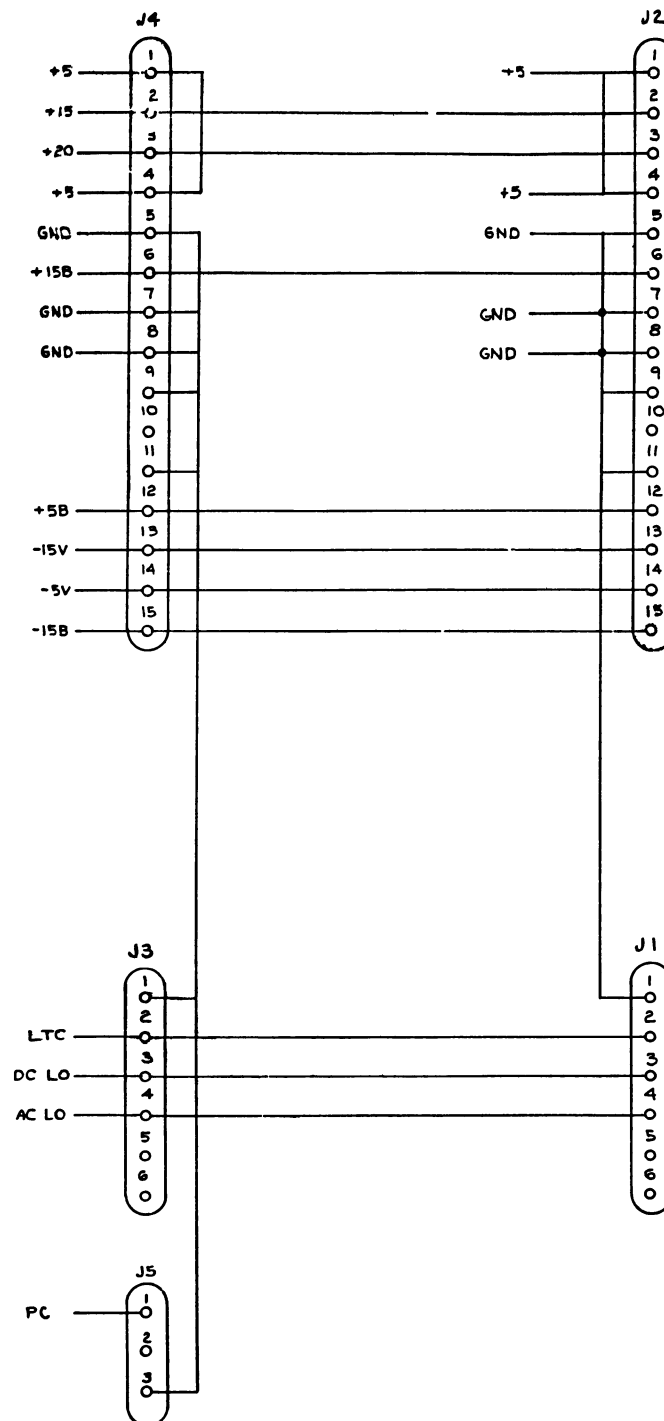
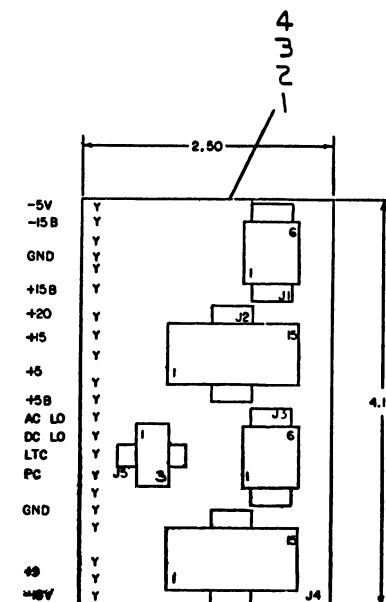
REV	DESCRIPTION	DATE	BY	CHK'D	APP'D
1	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
2	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
3	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
4	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
5	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
6	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
7	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
8	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
9	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
10	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
11	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
12	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
13	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
14	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
15	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
16	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
17	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
18	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
19	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
20	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
21	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
22	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
23	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
24	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
25	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
26	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
27	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
28	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
29	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
30	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
31	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
32	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
33	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
34	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
35	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
36	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
37	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
38	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
39	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.
40	H777 B-000016	10/16/71	W. J. B.	W. J. B.	W. J. B.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION																			
PARTS LIST																								
MADE BY S. ROCHA		CHECKED D. HEALY		SECTION 1																				
DATE 29 JUL 76		DATE 2 AUG 76																						
ENG R. COURTMACHE		PROD R. BARRY		ISSUED SECT. 1																				
DATE 13 SEP 76		DATE 13 SEP 76																						
ITEM NO	DWG NO. / PART NO.	DESCRIPTION																						
1	D-CS-5412667-0-1	H777 +5V REG (REV & UP)				1																		
2	9006633	WASHER, INT TOOTH LOCK #6				4																		
3	9006025-01	SCR PHIL HD PAN #6-32 x .62L				2																		
4	9006023-01	SCR PHIL HD PAN #6-32 x .44L				2																		
5	D-IA-7011415-0-0	HARNESS H777 +5V REG				1																		
6	9006660	WASH, .375 O.D. x .137 I.D. x .036				2																		
7	D-IA-7011560-0-0	HARNESS BD MOS REG PWR DIST				1																		
8	D-CS-541586-0-1	BOARD, PWR DISTR. H777				1																		
9	D-IA-7417017-0-0	PLATE, CAPACITOR CONN SIDE				1																		
10	9008185	NUT KEPS #6-32				2																		
11	9006020-1	SCR PHIL PAN HD #6-32 x .25L				2																		
12	9009052	CLAMP CAPACITOR				1																		
13	1012740-00	CAPACITOR 3900uf 16.0V (65)				1																		
14	9007017	GROMMET RUBBER				2																		
15	E-IA-7413743-1-0	BRACKET CAPACITOR				1																		
16	9007035	GROMMET CATERPILLAR				A/R																		
17	1010702	CAPACITOR 24Kuf 50V				2																		
18	C-MD-7417408-0-0	CLAMP CAPACITOR				1																		
19	9009836-1	SCR PHIL HD TRUSS #8-32 x .38L				2																		
20	9006634	WASHER INT TOOTH LOCK #8				2																		
21	9008258	SPACER HEX #8-32 x 1.375				2																		
22	1612584	CHOKE				1																		
TITLE					ASSY NO.					SIZE		CODE		NUMBER					REV		7012909			
+5V REG ASSY					D-AD-7012909-0-0					A		PL		7012909-0-0					1		ML073			
SHEET 1 OF 2					DIST.																			

DEC FORM DEC 16-(325)-1031-N870
 DRA 110

[illegible]

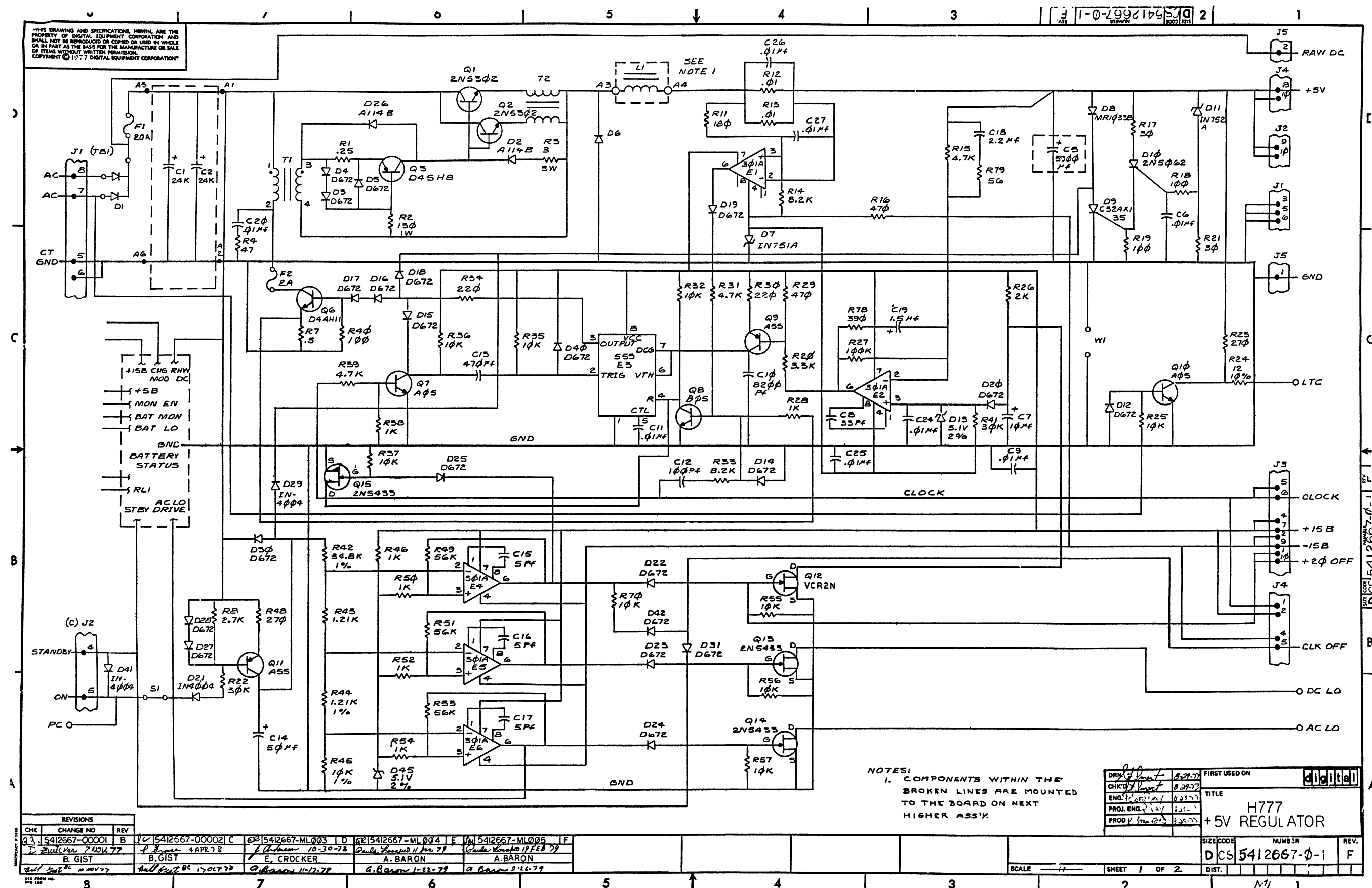
NOTES:

[illegible]

REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411586-0-4	1
REF		ASSY DRILLING HOLE LAYOUT	D-AH-5411586-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411586-0-6	3
1		ETCHED CIRCUIT BOARD	5011585	4
2	J2,J4	CONN.,MATE-N-LOCK,15 PIN HOUSING	1209350-15	5
2	J1,J3	CONN.,MATE-N-LOCK,6 PIN HOUSING	1209350-06	6
45		PIN CONTACT, MATE-N-LOCK	1209456-01	7
1	J5	CONN.,MATE-N-LOCK,3 PIN HOUSING	1209350-03	8

QTY		REF DESIGNATION		DESCRIPTION		PART NO		ITEM NO		
FIRST USED ON OPTION MODEL				PARTS LIST						
1104 PWR SUPPLY				ETCH BOARD REV		D				
REV	CHANGE NO	REVISIONS			DRW	DATE	digital EQUIPMENT CORPORATION WATLAND, MASSACHUSETTS	TITLE	BOARD, POWER DISTRIBUTION H777	
					CHKD	DATE				
					ENGR	DATE				
					PRG	DATE				
					MOD	DATE				
					NEXT HIGHER ASSY					
					SCALE NONE					
					SHEET 1 OF 1					
					DISTR					
					DISTR					
DEC NO		EIA NO		DEC NO		EIA NO		SIZE/CODE	QUANTITY	REV
								DCS 541156-0-1		C
SEMICONDUCTOR CONVERSION CHART										

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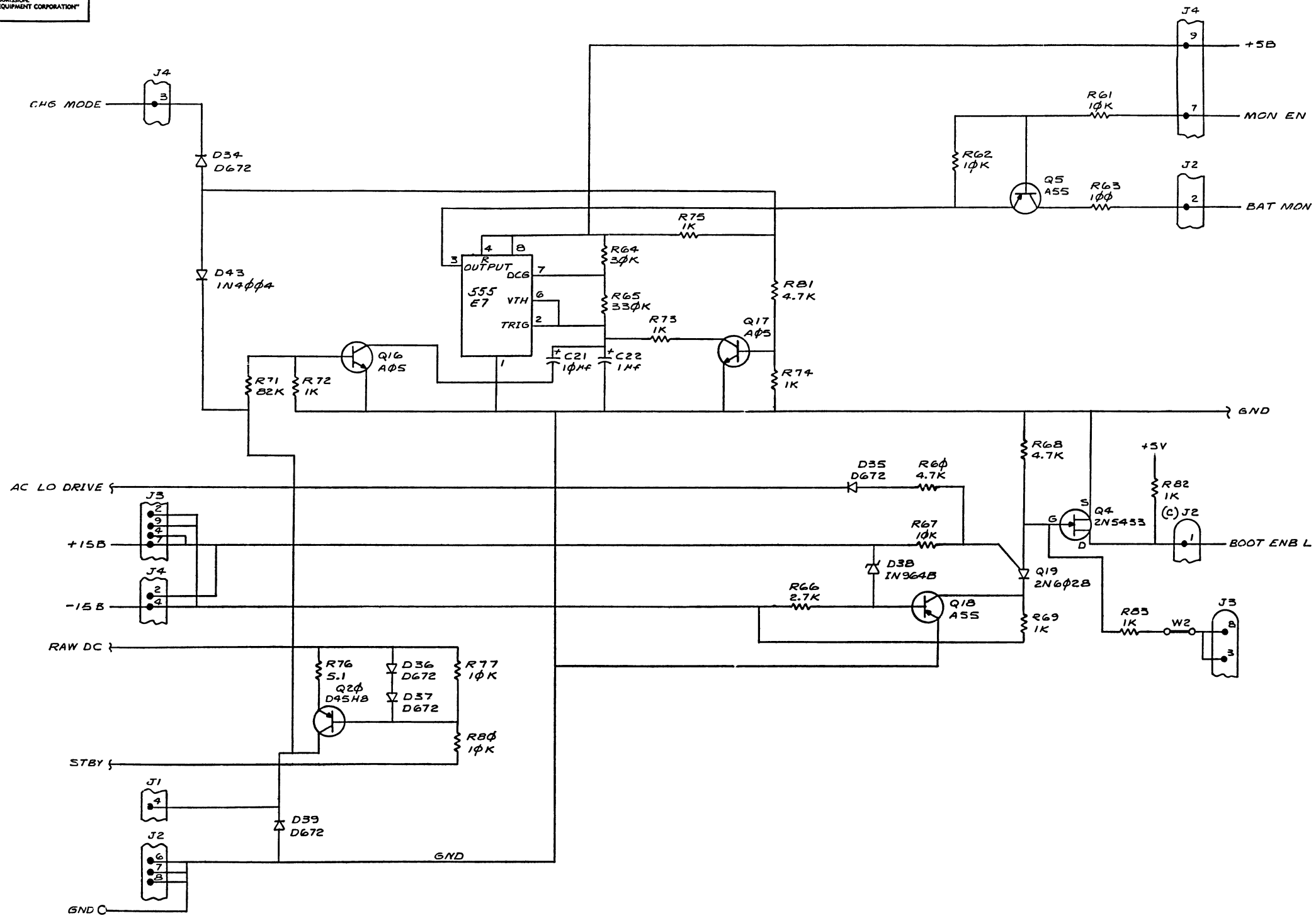


NOTES:
1. COMPONENTS WITHIN THE
BROKEN LINES ARE MOUNTED
TO THE BOARD ON NEXT
HIGHER ASS'Y.

DRN	CHKD	ENG	PROJ. ENG.	PROD. V.
10/1/77	10/1/77	10/1/77	10/1/77	10/1/77
FIRST USED ON				
TITLE				
H777				
+5V REGULATOR				
SIZE CODE				
NUMBER				
REV.				

CHK	CHANGE NO	REV
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10

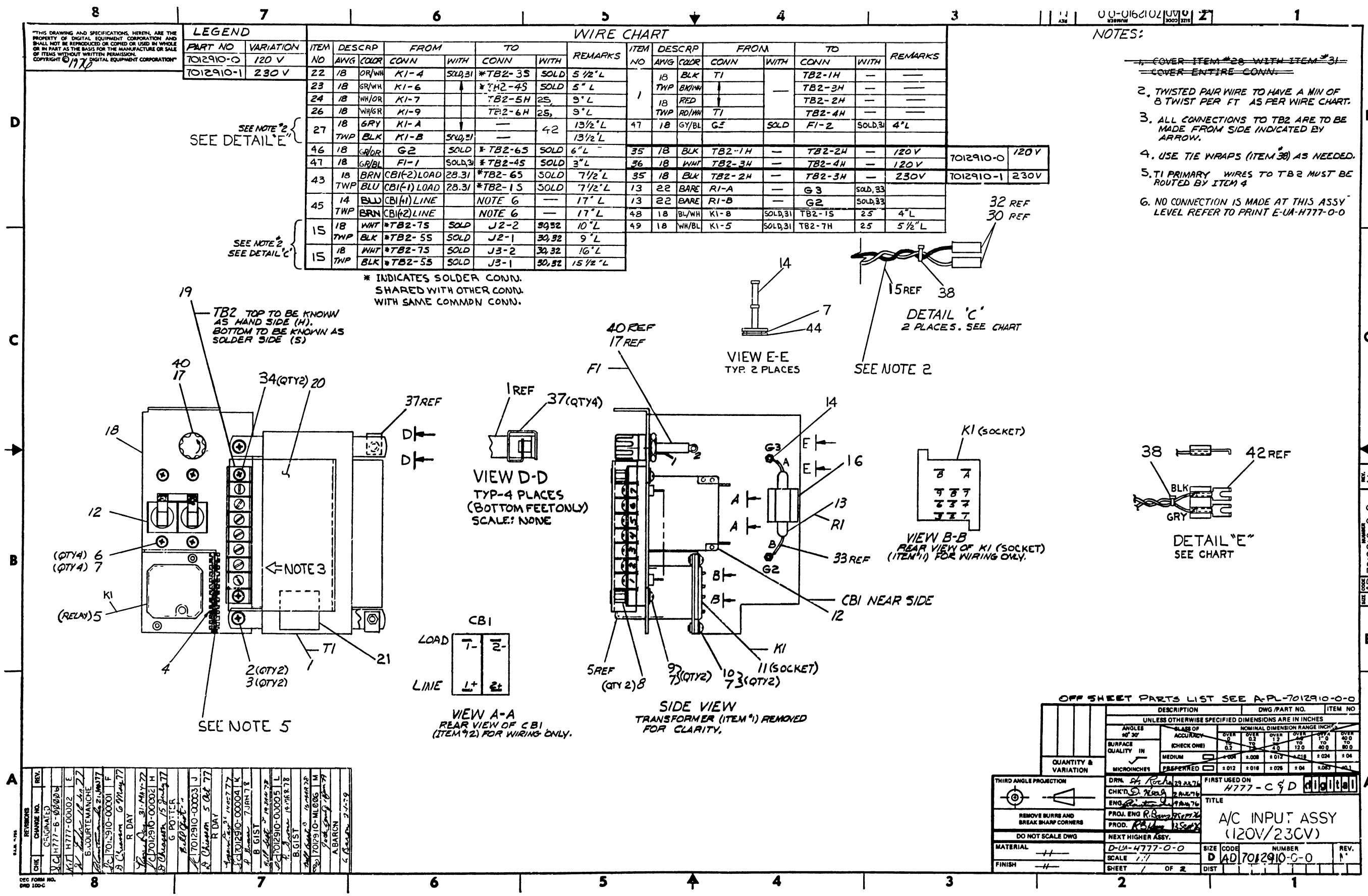
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REVISIONS		
CHK	CHANGE NO	REV

(BATTERY STATUS CRKT'S)

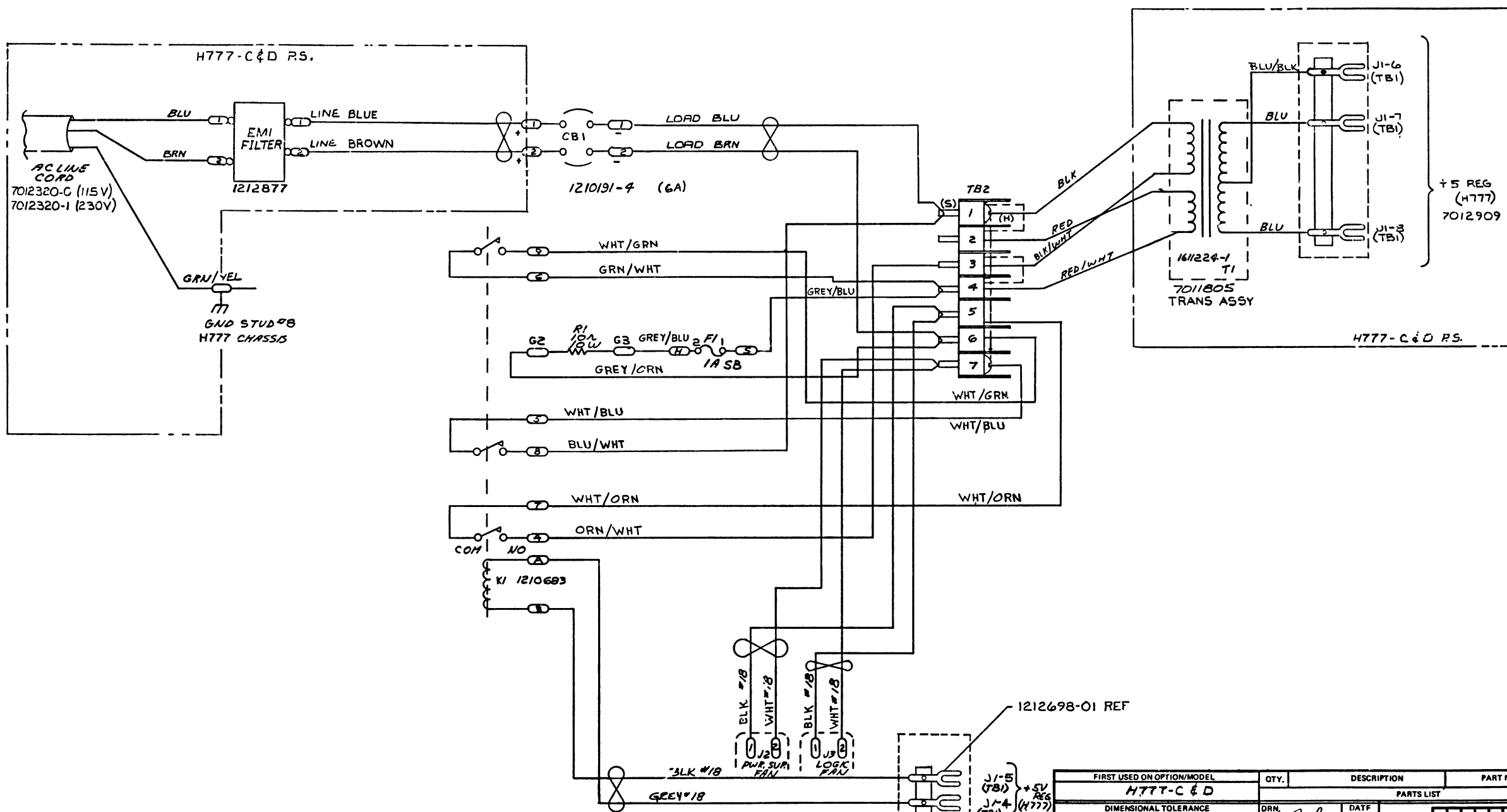
TITLE H777 +5V REGULATOR		SIZE CODE D CS	NUMBER 5412667-0-1	REV. F
SCALE 1/1	SHEET 2	OF 2	DIST.	



REV	DATE	BY	CHK	DESCRIPTION
1	31 MAY 77	W. J. HARRIS	W. J. HARRIS	ORIGINAL
2	15 JUN 77	W. J. HARRIS	W. J. HARRIS	REVISED TO ADD TIE WRAPS
3	15 JUN 77	W. J. HARRIS	W. J. HARRIS	REVISED TO ADD TIE WRAPS
4	15 JUN 77	W. J. HARRIS	W. J. HARRIS	REVISED TO ADD TIE WRAPS
5	15 JUN 77	W. J. HARRIS	W. J. HARRIS	REVISED TO ADD TIE WRAPS
6	15 JUN 77	W. J. HARRIS	W. J. HARRIS	REVISED TO ADD TIE WRAPS
7	15 JUN 77	W. J. HARRIS	W. J. HARRIS	REVISED TO ADD TIE WRAPS
8	15 JUN 77	W. J. HARRIS	W. J. HARRIS	REVISED TO ADD TIE WRAPS

QUANTITY & VARIATION		DESCRIPTION		DWG PART NO.		ITEM NO.	
THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		7012910-0		1	
REMOVE BURRS AND BREAK SHARP CORNERS		ANGLES 45°		7012910-1		2	
DO NOT SCALE DWG		SURFACE QUALITY		7012910-2		3	
MATERIAL		MICROINCHES		7012910-3		4	
FINISH		PRESPECIFIED		7012910-4		5	
				7012910-5		6	
				7012910-6		7	
				7012910-7		8	
				7012910-8		9	
				7012910-9		10	
				7012910-10		11	
				7012910-11		12	
				7012910-12		13	
				7012910-13		14	
				7012910-14		15	
				7012910-15		16	
				7012910-16		17	
				7012910-17		18	
				7012910-18		19	
				7012910-19		20	
				7012910-20		21	
				7012910-21		22	
				7012910-22		23	
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				7012910-25		26	
				7012910-26		27	
				7012910-27		28	
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				7012910-29		30	
				7012910-30		31	
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				7012910-43		44	
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				7012910-85		86	
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				7012910-90		91	
				7012910-91		92	
				7012910-92		93	
				7012910-93		94	
				7012910-94		95	
				7012910-95		96	
				7012910-96		97	
				7012910-97		98	
				7012910-98		99	
				7012910-99		100	

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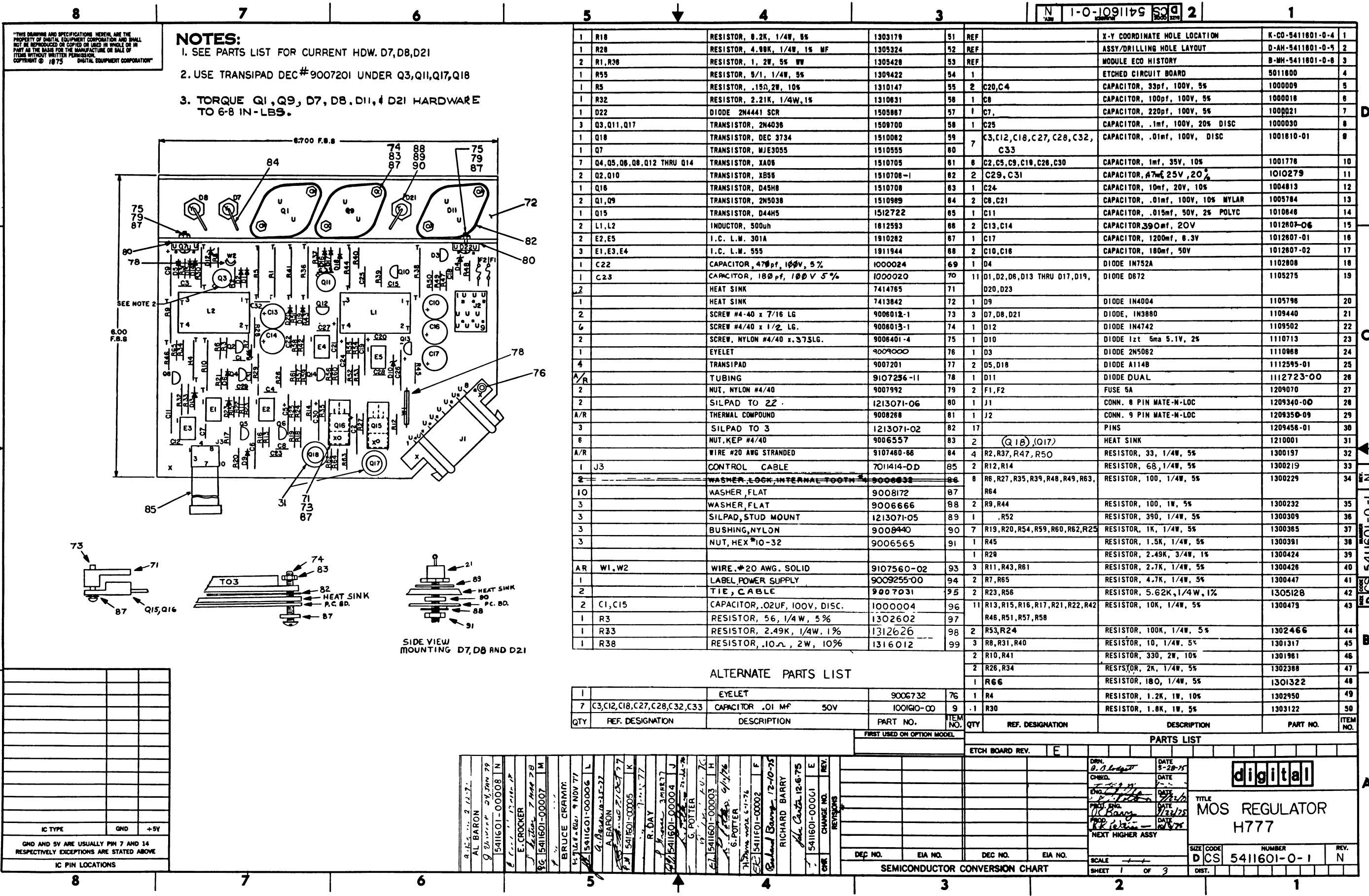
REV	CHANGE NO
1	1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
H777-C & D					
DIMENSIONAL TOLERANCE		DRN	DATE	PARTS LIST	
DIMENSIONS ARE INCHES		CWP	DATE		
UNLESS OTHERWISE SPECIFIED		ENG	DATE	TITLE	
MILLIMETERS		PROJ. ENG.	DATE		
X.XX ± 0.10	XX ± 0.05	DATE	DATE	A/C INPUT ASSY (120V/230V)	
X.X ± 0.05	X.X ± 0.02	DATE	DATE		
X ± 0.2	X ± 0.1	DATE	DATE	NEXT HIGHER ASSY.	
THIRD ANGLE PROJECTION		DATE	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		SIZE CODE		NUMBER	
MATERIAL		SCALE		DIST	
FINISH		SHEET 2 OF 2		REV. M	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION																
PARTS LIST																			
MADE BY <i>A. Rocha</i>		CHECKED D. HEALY	SECTION																
DATE <i>19 JUL 76</i>		DATE 27 JUL 76	1																
ENG <i>R. Barry</i>		PROD <i>R.B. King</i>	ISSUED SECT.																
DATE <i>9-17-76</i>		DATE <i>2-5-76</i>	1																
ITEM NO	DWG NO. / PART NO.	DESCRIPTION		7012910-0	7012910-1														
1	C-1A-7011805-0-0	TRANSFORMER ASSY		1	1														
2	9006037-01	SCR PHIL PAN HD #8 - 32 x .38		2	2														
3	9006634	WASHER INT. TOOTH LOCK #8		2	2														
4	9007035	GROMMET CATERPILLAR		A	RA/R														
5	1210683-00	RELAY 12V 3P 10A		1	1														
6	9006020-01	SCR PHIL HD PAN #6-32 x .25		4	4														
7	9006633	WASHER INT. TOOTH LOCK #6		10	10														
8	9006842	SPACER HEX #6 - 32 x .31		2	2														
9	9007794-01	SCR PHIL HD PAN #6 - 32 x .69		2	2														
10	9006021-01	SCR PHIL HD PAN #6 - 32 x .31		2	2														
11	1212789	SOCKET, RELAY		1	1														
12	1210191-4	CIRCUIT BREAKER, 6A		1	1														
13	1300173	RESISTOR, 10 OHM, 10W		1	1														
14	9006966	TERMINAL TURRET INS		2	2														
15	9107430-09	WIRE #18 AWG INS TW/PR (WHT/BLK)		A	RA/R														
16	9009771-2	CLAMP (RESISTOR) 3/8 I.D. SELF ADH.		1	1														
17	1212893-00	HOLDER, FUSE 20A, 300V		1	1														
18	D-1A-7417219-0-0	BRACKET, COMPONENT		1	1														
19	1212788	BARRIER STRIP 7 POS		1	1														
20	B-1A-7414743-1-0	SHIELD, TERM.		1	1														
21	9008264	MOUNT TIE WRAP		1	1														
22	9107410-39	WIRE #18 AWG INS ORN/WHT		A	RA/R														
TITLE		ASSY NO.		SIZE	CODE	NUMBER		REV	ECO NO										
A/C INPUT ASSY (120V/230V)		D-AD-7012910-0-0		A	PL	7012910-0-0		M	7012910-0-0										
		SHEET 1 OF 3		DIST															
DEC FORM DEC 16-(325)-1031-N870 DRA 110																			

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION																
PARTS LIST																			
MADE BY A. ROCHA		CHECKED D HEALY	SECTION																
DATE 19-JULY-76		DATE 27-JULY-76	1																
ENG R BARRY		PROD R B KING	ISSUED SECT.																
DATE 17-SEPT-76		DATE 21-SEPT-76	1																
ITEM NO	DWG NO. / PART NO.	DESCRIPTION		7012910-0	7012910-1														
45	C-1A-741728A-0-0	A/C CONN HARNESS		1	1														
46	9107410-83	WIRE #18 AWG INS GREY/ORN		A	RA/R														
47	9107410-86	WIRE #18 AWG INS GREY/BLU		A	RA/R														
48	9107410-69	WIRE #18 AWG INS BLU/WHT		A	RA/R														
49	9107410-96	WIRE #18 AWG INS WHT/BLU		A	RA/R														
TITLE		ASSY NO.		SIZE	CODE	NUMBER		REV	ECO NO										
A/C INPUT ASSY. (120V/230V)		D-AD-7012910-0-0		A	PL	7012910-0-0		M	7012910-0-0										
		SHEET 3 OF 3		DIST															
DEC FORM DEC 16-(325)-1031-N870 DRA 110																			

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION																
PARTS LIST																			
MADE BY <i>A. Rocha</i>		CHECKED D. HEALY	SECTION																
DATE 19 JULY 76		DATE 27 JUL 76	1																
ENG <i>R. Barry</i>		PROD <i>R.B. King</i>	ISSUED SECT.																
DATE <i>9-17-76</i>		DATE <i>2-5-76</i>	1																
ITEM NO	DWG NO. / PART NO.	DESCRIPTION		7012910-0	7012910-1														
23	9107410-59	WIRE 18 AWG INS GRN/WHT		A	RA/R														
24	9107410-93	WIRE 18 AWG INS WHT/GRN		A	RA/R														
25	9007929	RING CRIMP (RED INS)		2	2														
26	9107410-95	WIRE 18 AWG INS WHT/GRN		A	RA/R														
27	9107430-08	WIRE 18 AWG INS (GRY/BLK) TW/PR		A	RA/R														
28	9007970	CONN FASTON (RED INS.)		2	2														
29	1210191-4	CIRCUIT BREAKER, 6A		1	1														
30	1210820-2	HOUSING TERM. FASTAB		4	4														
31	9107305-02	TUBING SHRINK (RED)		A	RA/R														
32	1210820-1	HOUSING SOCKET, FASTAB		4	4														
33	9107278-02	TUBING INS (RED)		A	RA/R														
34	9008020-02	SCR, PHL, FLAT HD, 6 - 32 x .19		2	2														
35	B-1A-7011797-0-0	JUMPER ASSY (BLK 2")		1	1														
36	B-1A-7011798-0-0	JUMPER ASSY (WHT 2")		1	1														
37	9007786	NUT #10 - 32		4	4														
38	9007031	TIE WRAP		A	RA/R														
39	9107253-09	TUBING, SHRINK (WHT)		A	RA/R														
40	9007212	FUSE, 1A, 250V S.B.		1	1														
41	9107253-03	TUBING, SHRINK (ORN)		A	RA/R														
42	1212698-01	STRIP, FANNING (2 POSITION)		1	1														
43	9107430-16	WIRE #18 AWG INSTWP BRN, BLU		A	RA/R														
44	9006656	WASHER, FLAT		2	2														
TITLE		ASSY NO.		SIZE	CODE	NUMBER		REV	ECO NO										
A/C INPUT ASSY (120V/230V)		D-AD-7012910-0-0		A	PL	7012910-0-0		M	7012910-0-0										
		SHEET 2 OF 3		DIST															
DEC FORM DEC 16 (325) 1031 N870 DRA 110																			



NOTES:
1. SEE PARTS LIST FOR CURRENT HDW. D7,D8,D21
2. USE TRANSIPAD DEC#9007201 UNDER Q3,Q11,Q17,Q18
3. TORQUE Q1,Q9,D7,D8,D11,4 D21 HARDWARE TO 6-8 IN.-LBS.

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.
1	R18	RESISTOR, 0.2K, 1/4W, 5%	1303170	51	REF	X-Y COORDINATE HOLE LOCATION	K-CO-5411601-0-4
1	R28	RESISTOR, 4.99K, 1/4W, 1% MF	1305324	52	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5411601-0-5
2	R1,R38	RESISTOR, 1, 2W, 5% WW	1305420	53	REF	MODULE ECO HISTORY	B-MH-5411601-0-8
1	R55	RESISTOR, 5/1, 1/4W, 5%	1309422	54	1	ETCHED CIRCUIT BOARD	5011800
1	R5	RESISTOR, .15Ω, 2W, 10%	1310147	55	2	C20,C4	CAPACITOR, 33pf, 100V, 5%
1	R32	RESISTOR, 2.21K, 1/4W, 1%	1310631	56	1	C8	CAPACITOR, 100pf, 100V, 5%
1	D22	DIODE 2N4441 SCR	1505867	57	1	C7	CAPACITOR, 220pf, 100V, 5%
3	Q3,Q11,Q17	TRANSISTOR, 2N4036	1509700	58	1	C25	CAPACITOR, .1mf, 100V, 20% DISC
1	Q18	TRANSISTOR, DEC 3734	1510082	59	7	C3,C12,C18,C27,C28,C32,C33	CAPACITOR, .01mf, 100V, DISC
1	Q7	TRANSISTOR, MJE3055	1510555	60			
7	Q4,Q5,Q8,Q9,Q12 THRU Q14	TRANSISTOR, XA06	1510705	61	6	C2,C5,C9,C19,C26,C30	CAPACITOR, 1mf, 35V, 10%
2	Q2,Q10	TRANSISTOR, XB55	1510706-1	62	2	C29,C31	CAPACITOR, .47mf, 25V, 20%
1	Q16	TRANSISTOR, D45H8	1510708	63	1	C24	CAPACITOR, 10mf, 20V, 10%
2	Q1,Q9	TRANSISTOR, 2N5038	1510969	64	2	C8,C21	CAPACITOR, .01mf, 100V, 10% MYLAR
1	Q15	TRANSISTOR, D44H5	1512722	65	1	C11	CAPACITOR, .015mf, 50V, 2% POLYC
2	L1,L2	INDUCTOR, 500uh	1612593	66	2	C13,C14	CAPACITOR, 390mf, 20V
2	E2,E5	I.C. L.M. 301A	1910282	67	1	C17	CAPACITOR, 1200mf, 6.3V
3	E1,E3,E4	I.C. L.M. 555	1911944	68	2	C10,C16	CAPACITOR, 180mf, 50V
1	C22	CAPACITOR, 470pf, 100V, 5%	1000024	69	1	D4	DIODE 1N752A
1	C23	CAPACITOR, 180pf, 100V 5%	1000020	70	11	D1,D2,D6,D13 THRU D17,D19,D20,D23	DIODE D672
2		HEAT SINK	7414765	71			
1		HEAT SINK	7413842	72	1	D9	DIODE 1N4004
2		SCREW #4-40 x 7/16 LG	9006012-1	73	3	D7,D8,D21	DIODE, 1N3880
6		SCREW #4/40 x 1/2 LG.	9006013-1	74	1	D12	DIODE 1N4742
2		SCREW, NYLON #4/40 x.375LG.	9006401-4	75	1	D10	DIODE 1zt 5ma 5.1V, 2%
1		EYELET	9009000	76	1	D3	DIODE 2N5062
4		TRANSIPAD	9007201	77	2	D5,D18	DIODE A114B
A/R		TUBING	9107256-11	78	1	D11	DIODE DUAL
2		NUT, NYLON #4/40	9007992	79	2	F1,F2	FUSE 5A
2		SILPAD TO 22	1213071-06	80	1	J1	CONN. 8 PIN MATE-M-LOC
A/R		THERMAL COMPOUND	9008268	81	1	J2	CONN. 9 PIN MATE-M-LOC
3		SILPAD TO 3	1213071-02	82	17		PINS
6		NUT, KEP #4/40	9006557	83	2	(Q18),(Q17)	HEAT SINK
A/R		WIRE #20 AWG STRANDED	9107460-66	84	4	R2,R37,R47,R50	RESISTOR, 33, 1/4W, 5%
1	J3	CONTROL CABLE	7011414-0D	85	2	R12,R14	RESISTOR, 68, 1/4W, 5%
2		WASHER, LOCK, INTERNAL TOOTH	9006632	86	8	R6,R27,R35,R39,R48,R49,R63,R64	RESISTOR, 100, 1/4W, 5%
10		WASHER, FLAT	9008172	87			
3		WASHER, FLAT	9006666	88	2	R9,R44	RESISTOR, 100, 1W, 5%
3		SILPAD, STUD MOUNT	1213071-05	89	1	R52	RESISTOR, 390, 1/4W, 5%
3		BUSHING, NYLON	9008440	90	7	R19,R20,R54,R59,R60,R62,R25	RESISTOR, 1K, 1/4W, 5%
3		NUT, HEX #10-32	9006565	91	1	R45	RESISTOR, 1.5K, 1/4W, 5%
					1	R28	RESISTOR, 2.49K, 3/4W, 1%
A/R	W1,W2	WIRE, #20 AWG. SOLID	9107560-02	93	3	R11,R43,R61	RESISTOR, 2.7K, 1/4W, 5%
1		LABEL, POWER SUPPLY	9009255-00	94	2	R7,R65	RESISTOR, 4.7K, 1/4W, 5%
2		TIE, CABLE	9007031	95	2	R23,R56	RESISTOR, 5.62K, 1/4W, 1%
2	C1,C15	CAPACITOR, .02UF, 100V, DISC.	1000004	96	11	R13,R15,R16,R17,R21,R22,R42,R46,R51,R57,R58	RESISTOR, 10K, 1/4W, 5%
1	R3	RESISTOR, 56, 1/4W, 5%	1302602	97			
1	R33	RESISTOR, 2.49K, 1/4W, 1%	1312626	98	2	R53,R24	RESISTOR, 100K, 1/4W, 5%
1	R38	RESISTOR, .10Ω, 2W, 10%	1316012	99	3	R8,R31,R40	RESISTOR, 10, 1/4W, 5%
					2	R10,R41	RESISTOR, 330, 2W, 10%
					2	R26,R34	RESISTOR, 2K, 1/4W, 5%
					1	R66	RESISTOR, 180, 1/4W, 5%
					1	R4	RESISTOR, 1.2K, 1W, 10%
					1	R30	RESISTOR, 1.8K, 1W, 5%

ALTERNATE PARTS LIST

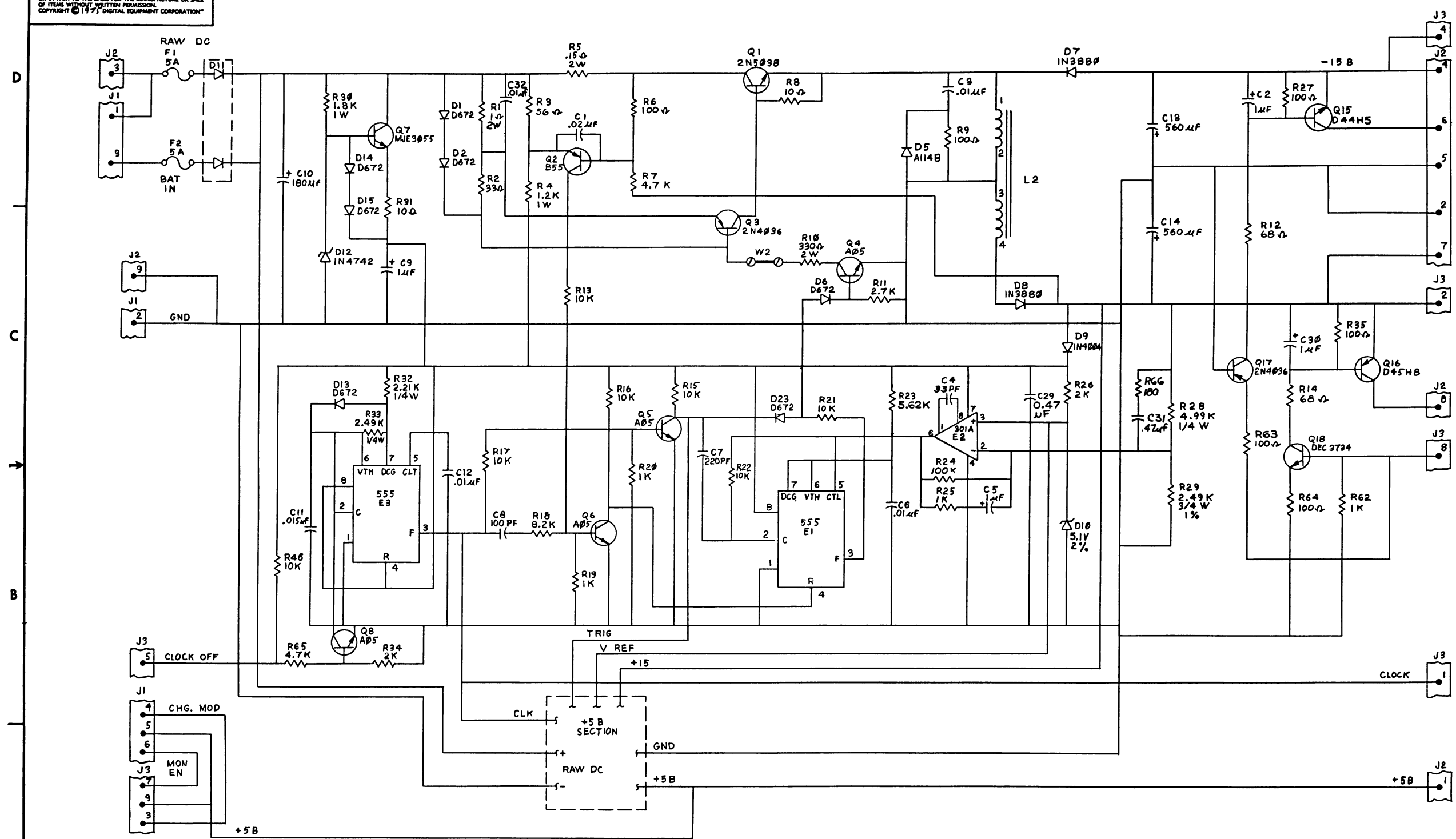
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.
1		EYELET	9006732	76	1	R4	RESISTOR, 1.2K, 1W, 10%
7	C3,C12,C18,C27,C28,C32,C33	CAPACITOR .01 MF 50V	1001010-00	9	1	R30	RESISTOR, 1.8K, 1W, 5%

FIRST USED ON OPTION MODEL		ETCH BOARD REV. E		PARTS LIST	
REVISIONS		DATE		TITLE	
1	5411601-00001	1	5-28-75	MOS REGULATOR H777	
2	5411601-00002	2	7-22-75	SIZE CODE NUMBER REV.	
3	5411601-00003	3	7-22-75	DCS 5411601-0-1 N	
4	5411601-00004	4	7-22-75	SHEET 1 OF 3	
5	5411601-00005	5	7-22-75	DIST.	
6	5411601-00006	6	7-22-75		
7	5411601-00007	7	7-22-75		
8	5411601-00008	8	7-22-75		
9	5411601-00009	9	7-22-75		
10	5411601-00010	10	7-22-75		
11	5411601-00011	11	7-22-75		
12	5411601-00012	12	7-22-75		
13	5411601-00013	13	7-22-75		
14	5411601-00014	14	7-22-75		
15	5411601-00015	15	7-22-75		
16	5411601-00016	16	7-22-75		
17	5411601-00017	17	7-22-75		
18	5411601-00018	18	7-22-75		
19	5411601-00019	19	7-22-75		
20	5411601-00020	20	7-22-75		
21	5411601-00021	21	7-22-75		
22	5411601-00022	22	7-22-75		
23	5411601-00023	23	7-22-75		
24	5411601-00024	24	7-22-75		
25	5411601-00025	25	7-22-75		
26	5411601-00026	26	7-22-75		
27	5411601-00027	27	7-22-75		
28	5411601-00028	28	7-22-75		
29	5411601-00029	29	7-22-75		
30	5411601-00030	30	7-22-75		
31	5411601-00031	31	7-22-75		
32	5411601-00032	32	7-22-75		
33	5411601-00033	33	7-22-75		
34	5411601-00034	34	7-22-75		
35	5411601-00035	35	7-22-75		
36	5411601-00036	36	7-22-75		
37	5411601-00037	37	7-22-75		
38	5411601-00038	38	7-22-75		
39	5411601-00039	39	7-22-75		
40	5411601-00040	40	7-22-75		
41	5411601-00041	41	7-22-75		
42	5411601-00042	42	7-22-75		
43	5411601-00043	43	7-22-75		
44	5411601-00044	44	7-22-75		
45	5411601-00045	45	7-22-75		
46	5411601-00046	46	7-22-75		
47	5411601-00047	47	7-22-75		
48	5411601-00048	48	7-22-75		
49	5411601-00049	49	7-22-75		
50	5411601-00050	50	7-22-75		

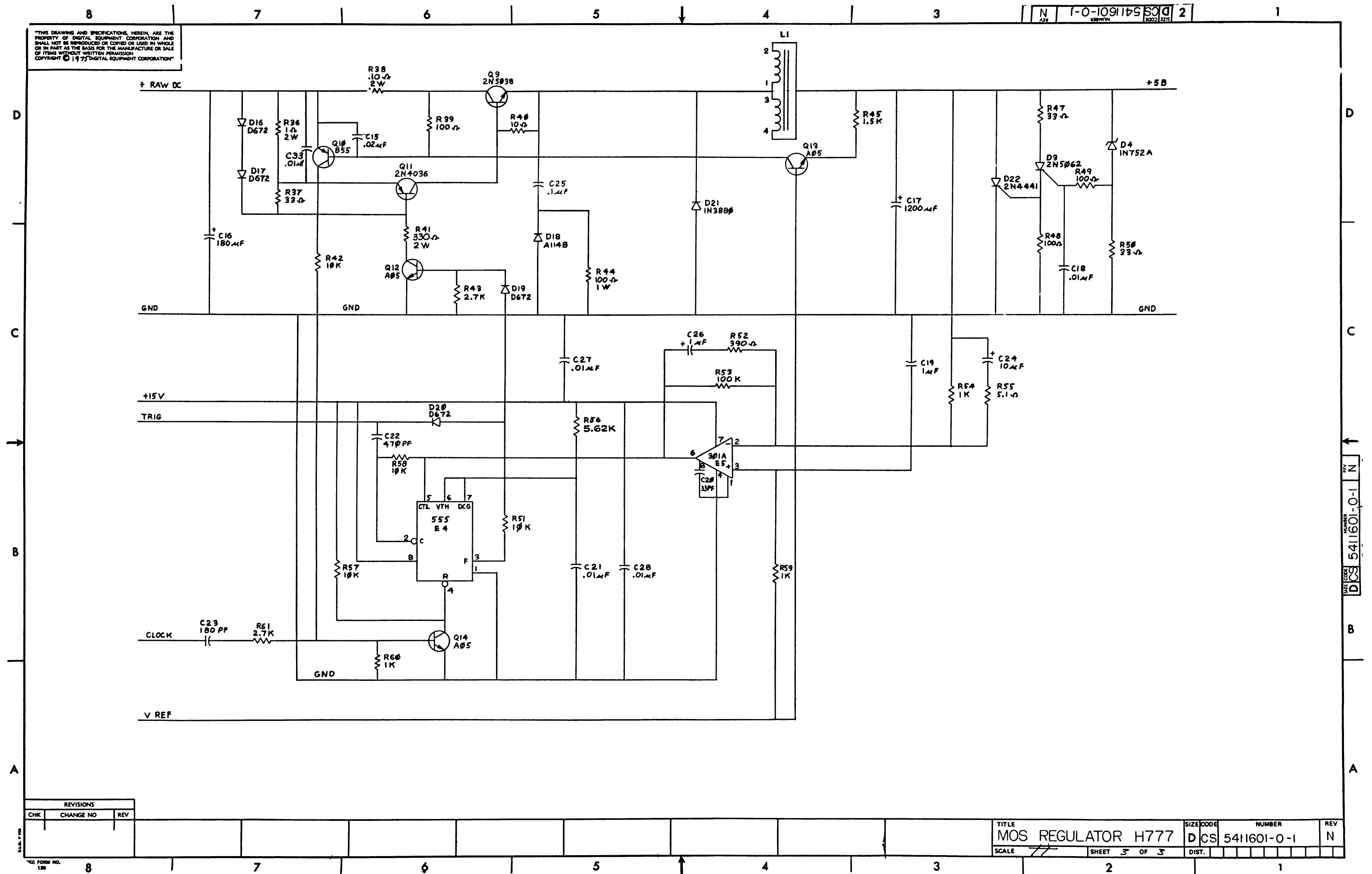
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

AL BARON	5411601-00006	L
AL BARON	5411601-00007	M
AL BARON	5411601-00008	N
AL BARON	5411601-00009	O
AL BARON	5411601-00010	P
AL BARON	5411601-00011	Q
AL BARON	5411601-00012	R
AL BARON	5411601-00013	S
AL BARON	5411601-00014	T
AL BARON	5411601-00015	U
AL BARON	5411601-00016	V
AL BARON	5411601-00017	W
AL BARON	5411601-00018	X
AL BARON	5411601-00019	Y
AL BARON	5411601-00020	Z
AL BARON	5411601-00021	A
AL BARON	5411601-00022	B
AL BARON	5411601-00023	C
AL BARON	5411601-00024	D
AL BARON	5411601-00025	E
AL BARON	5411601-00026	F
AL BARON	5411601-00027	G
AL BARON	5411601-00028	H
AL BARON	5411601-00029	I
AL BARON	5411601-00030	J
AL BARON	5411601-00031	K
AL BARON	5411601-00032	L
AL BARON	5411601-00033	M
AL BARON	5411601-00034	N
AL BARON	5411601-00035	O
AL BARON	5411601-00036	P
AL BARON	5411601-00037	Q
AL BARON	5411601-00038	R
AL BARON	5411601-00039	S
AL BARON	5411601-00040	T
AL BARON	5411601-00041	U
AL BARON	5411601-00042	V
AL BARON	5411601-00043	W
AL BARON	5411601-00044	X
AL BARON	5411601-00045	Y
AL BARON	5411601-00046	Z
AL BARON	5411601-00047	A
AL BARON	5411601-00048	B
AL BARON	5411601-00049	C
AL BARON	5411601-00050	D

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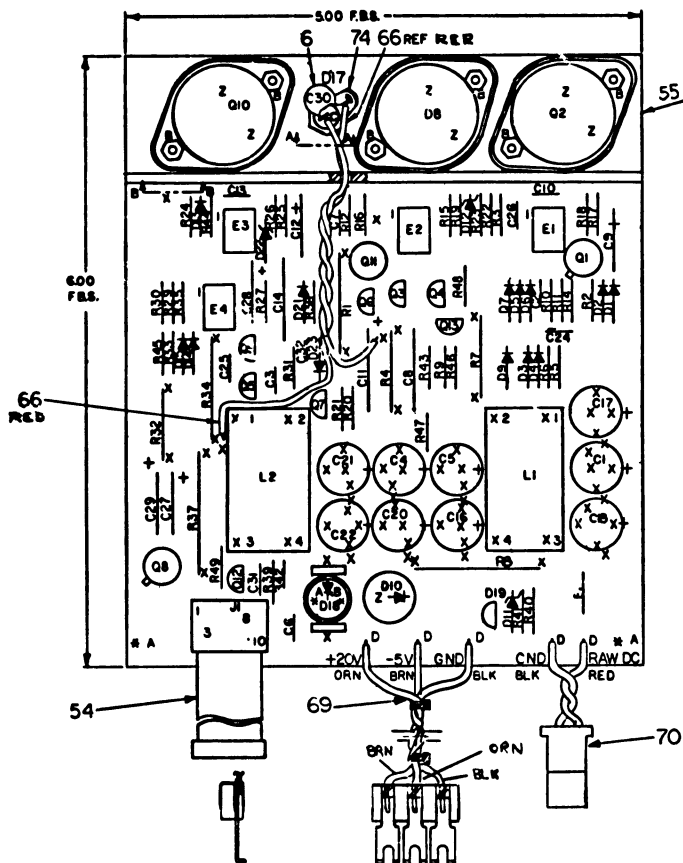
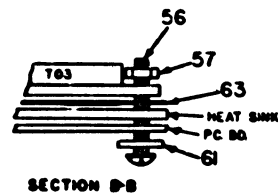
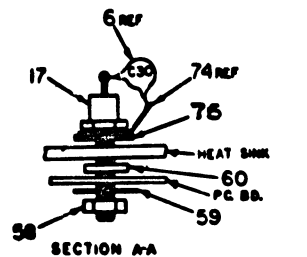
REVISIONS		
CHK	CHANGE NO	REV



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NOTES:

USC TRANSIPAD DEC 9007201 UNDER Q14QB



1		HEAT SINK	7416236-0-0	55
6		SCREW, #4-40 x 1/2 lg PH HD	9008015-1	58
6		NUT, KEP #4-40	9008557	57
1		NUT, HEX #10-32	9008584	58
1		WASHER, FLAT	9008682	59
1		BUSHING, NYLON	9008440	60
8		WASHER FLAT	9008172	61
A/R		COMPOUND, THERMAL	9008288	82
3		INSULATOR, TO 3	1213071-02	83
1		WASHER, THERMAL	9008434	64
2		TRANSIPAD	9007201	85
A/R		WIRE #18 AWG, TWISTED PAIR	9107430-02	88
1	C29	CAPACITOR 2.2UF 20V	1002627	67
1	R47	RESISTOR 200, 1/4W, 5%	1311522	68
1		HARNESS (THREE WIRE)	C-7A 7012547-0-0	69
1		HARNESS (TWO WIRE)	C-1A 7012546-0-0	70
1	C12	CAPACITOR, 10uf, 20V, 10%, TANT	1004813	71
1	D23	DIODE, IN753A	1102421	72
1	C26	CAPACITOR, .47uf, 25V, 20%, CER	1010279	73
1		SOLDER, TERM, SCREW MTG.	9007815	74
1		SIL PAD .800 .190 I.D.	1213071-05	75
1	C32	CAP. 1UF 50V CER.	1010274-02	76

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	REF	X-Y COORDINATE HOLE LOCATION	K-C0-5411599-0-4	1
1	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5411599-0-5	2
1	REF	MODULE ECO HISTORY	B-MH-5411599-0-8	3
1		ETCHED CIRCUIT BOARD	5011598	4
1	C7	CAPACITOR, 100PF, 100V, 5%	1000016	5
6	C2, C3, C8, C30, C24, C25	CAPACITOR, 01uf, 100V DISC	1001810-01	6
3	C9, C27, C28	CAPACITOR, 1uf, 35V, 10% TANT	1001778	7
2	C10, C13	CAPACITOR, 33pf, 100V DM	1000009	8
1	C11	CAPACITOR, 15uf, 35V, 10% TANT	1009725	9
2	C8, C14	CAPACITOR, 01uf, 100V, 10% MYLAR	1005784	10
1	C31	CAPACITOR, 220pf, 100V, 5%	1000021	11
2	C5, C16	CAPACITOR, 1200uf, 63V	1012807-01	12
7	C1, C17, C18, C4, C2, C21, C22	CAPACITOR, 180uf, 50V	1012807-02	13
1	D22	DIODE, IN 4742	1109502	14
1	D10	DIODE, M10338	1103341	15
10	D1 THRU D7, D14, D15, D21	DIODE, D872	1105275	16
1	D17	DIODE, IN3880	1109440	17
2	D12, D13	DIODE, IN 7531, 3.1V 2%	1110713	18
1	D8	DIODE	1110715	19
1	D11	DIODE, IN978B	1110858	20
1	D19	DIODE, 2N5082	1110968	21
1	D9,	DIODE, A114B	1112595-01	22
1	F1	FUSE, 15A, PICO	1210929	23
1	R46	RESISTOR, 18K, 1/4W, 5%	1302465	24
6	R9, R39, R40, R41, R43, R49	RESISTOR, 100, 1/4W, 5%	1300229	25
1	R7	RESISTOR, 100, 1W, 5%	1300232	26
3	R11, R2, R33	RESISTOR, 390, 1/4W, 5%	1300309	27
6	R8, R12, R23, R31, R17, R48	RESISTOR, 1K, 1/4W, 5%	1300385	28
3	R10, R14, R30	RESISTOR, 2.7K, 1/4W, 5%	1300426	29
4	R42, R44, R15, R27	RESISTOR, 4.7K, 1/4W, 5%	1300447	30
1	R4	RESISTOR 1K, 1W, 5%	1300368	31
3	R18, R29, R38,	RESISTOR, 10K, 1/4W, 5%	1300479	32
2	R3, R35	RESISTOR, 10, 1/4W, 5%	1301317	33
1	R45	RESISTOR, 470, 1/4W, 5%	1300316	34
1	R5	RESISTOR, 27, 1/4W, 5%	1301522	35
1	R34	RESISTOR, 330, 2W, 10%	1301981	36
1	R19	RESISTOR, 2K, 1/4W, 5%	1302388	37
2	R18, R28	RESISTOR, 100K, 1/4W, 5%	1302488	38
1	R22	RESISTOR, 2.74K, 1/4W, 1%	1304888	39
2	R1, R32	RESISTOR, 1, 2W, 5% WW	1305428	40
2	R24, R25	RESISTOR, 1.5K, 1/4W 5%	1300391	41
1	R21	RESISTOR, 8.25K, 1/4W, 1%	1309420	42
2	R8, R37	RESISTOR, 08, 5W, 3% WW	1311803	43
1	R20	RESISTOR, 56, 1/4 W, 5%	1302602	44
2	Q1, Q8	TRANSISTOR, 2N4838	1509700	45
7	Q3, Q5, Q6, Q7, Q9, Q12, Q13	TRANSISTOR, XA85	1510705	46
1	Q4	TRANSISTOR, XA55	1510706	47
1	Q18	TRANSISTOR, C32AX135	1510928	48
2	Q2, Q10	TRANSISTOR, 2N5038	1510989	49
1	Q11	TRANSISTOR, 2N5433	1511888	50
2	L1, L2	INDUCTOR, 500uh	1812593	51
2	E1, E3	I.C DEC 301A	1910282	52
2	E2, E4	I.C DEC 555	1911844	53
1	J1	CABLE ASSY	7011414 -OE	54

FIRST USED ON OPTION MODEL

ETCH BOARD REV. D

REVISIONS

DEC NO. EIA NO. DEC NO. EIA NO.

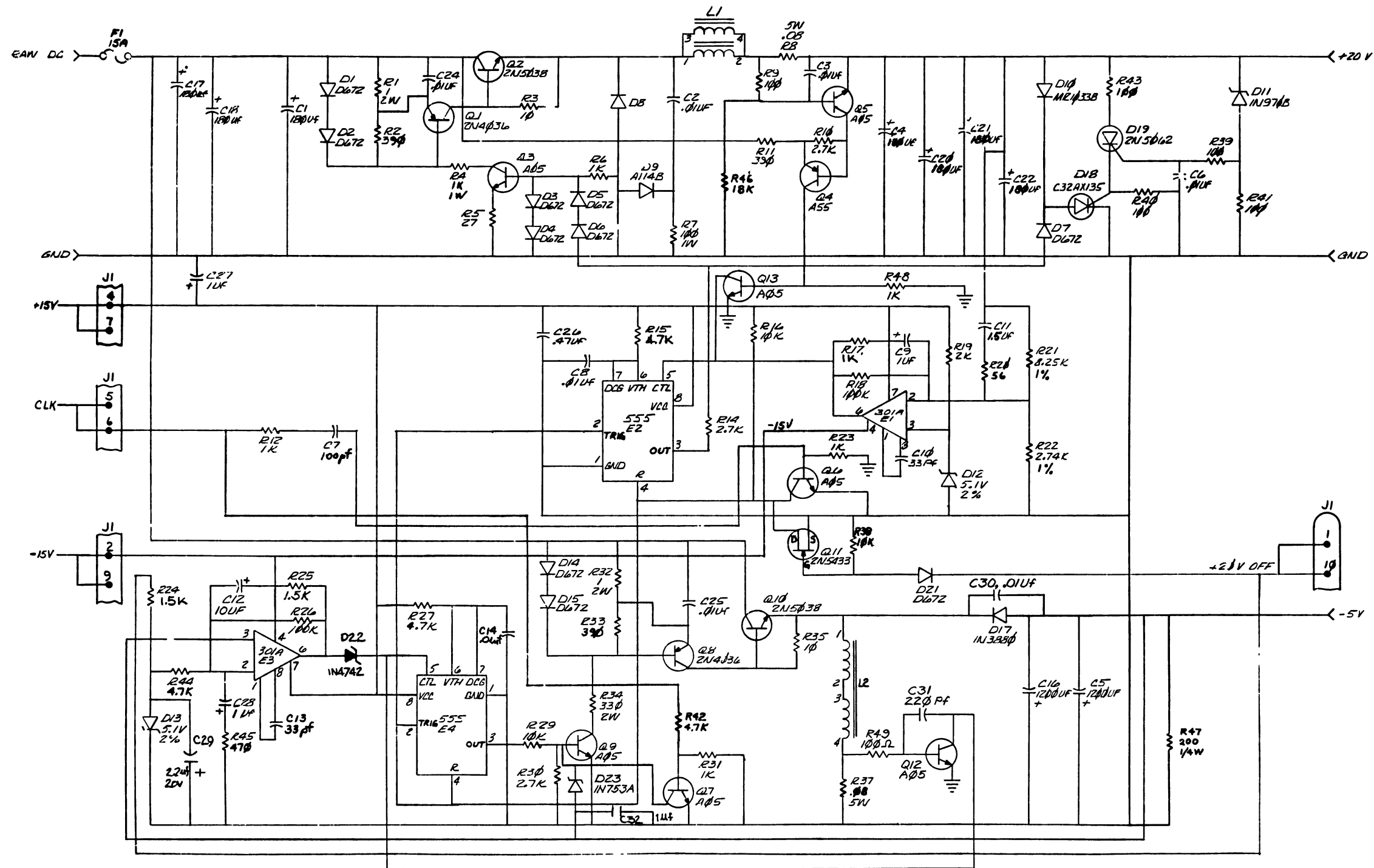
SEMICONDUCTOR CONVERSION CHART

DRN.	DATE
CHK'D.	DATE
ENG.	DATE
PROJ. MGR.	DATE
PROD. MGR.	DATE
NEXT HIGHER ASSY	DATE
E-UA-H777-0-0	
SCALE	
SHEET	1 OF 2

TITLE	
+20V	
REGULATOR/H777	
SIZE CODE	NUMBER
D CS 5411599-0-1	J
DIST.	

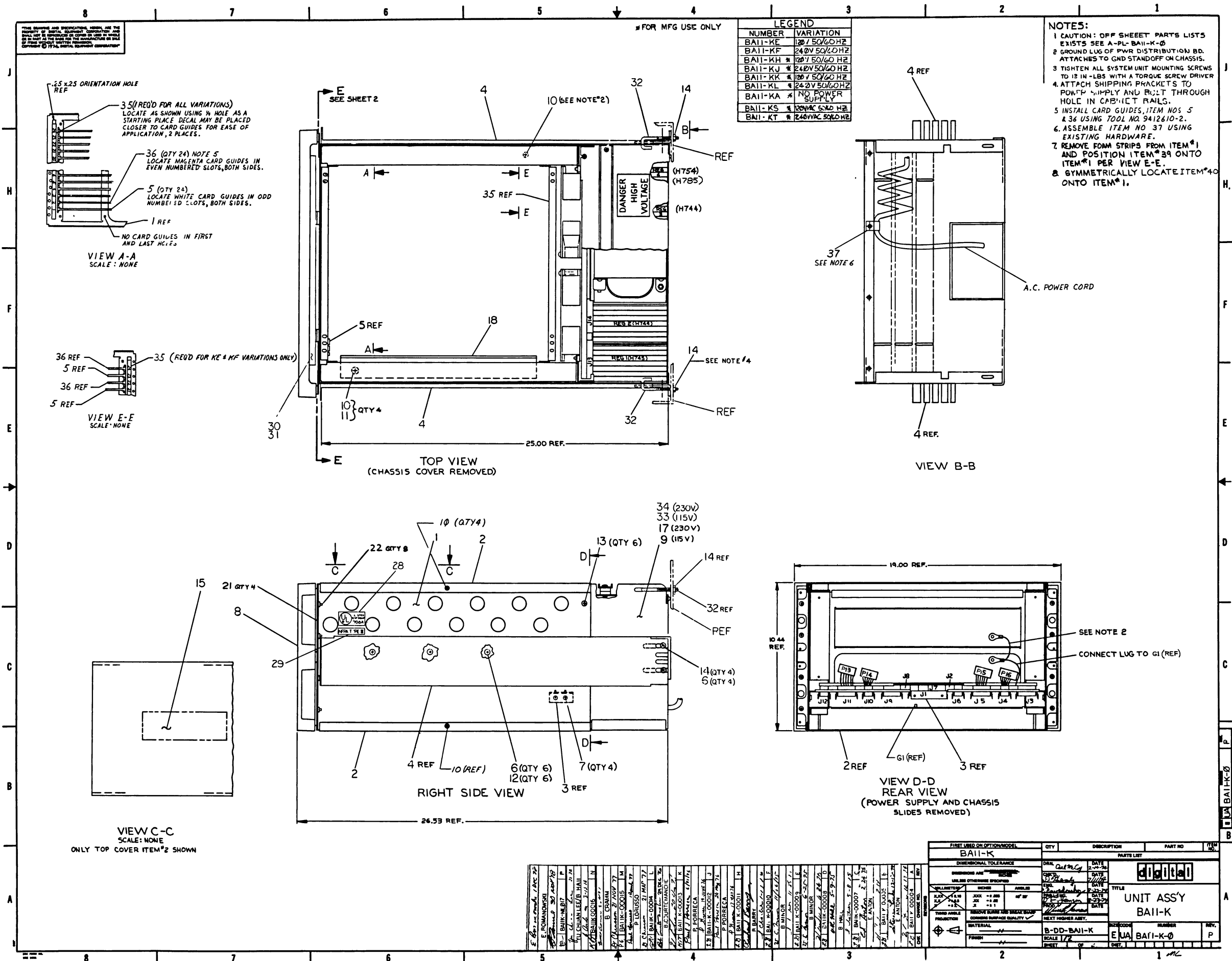
IC TYPE	8ND	+5V
8ND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTING ARE STATED ABOVE		
IC PIN LOCATIONS		

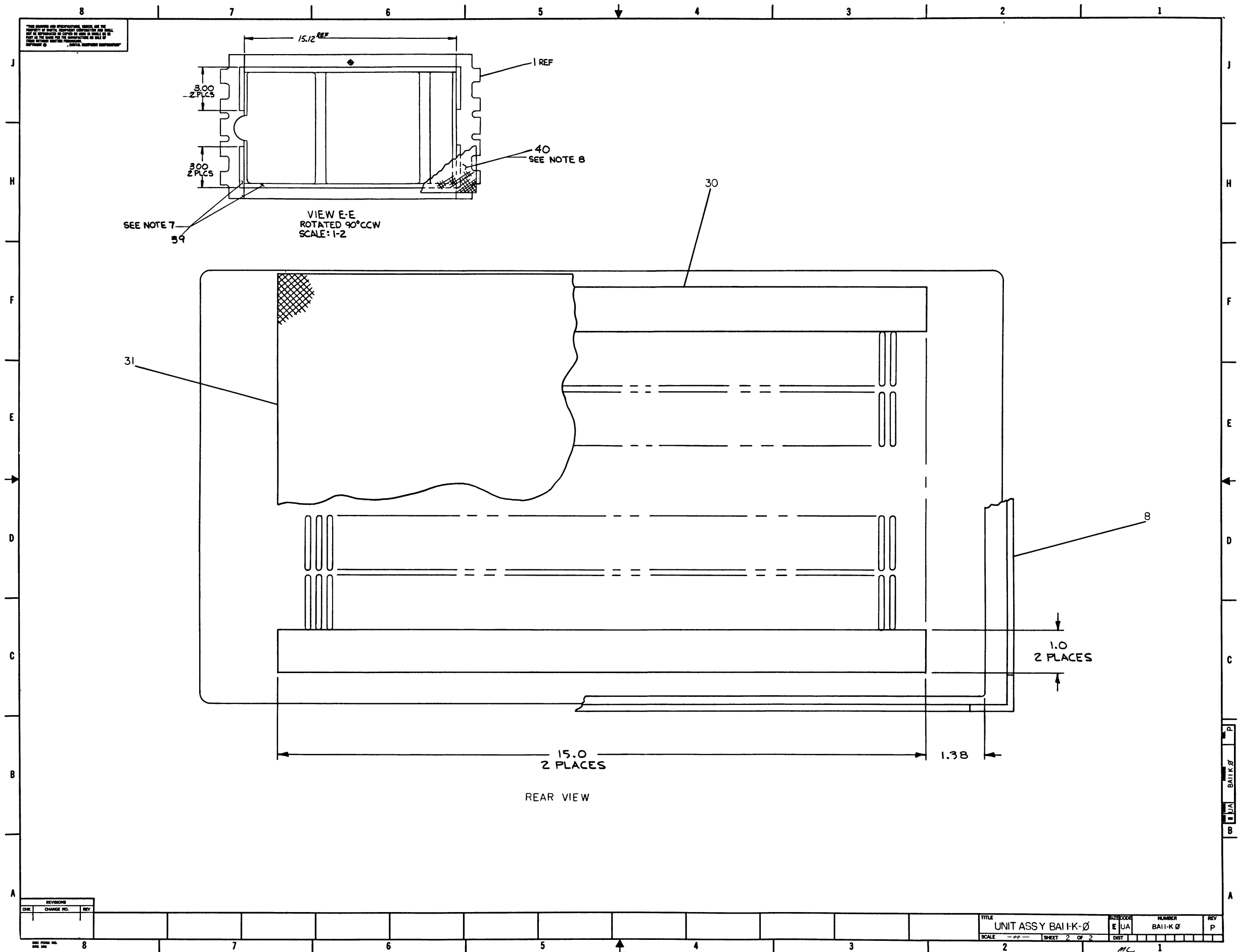
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REVISIONS		
DATE	CHANGE NO.	REV.

TITLE		+20V REGULATOR/H777		SIZE CODE		NUMBER		REV.	
				D CS		5411599-0-1		1/1	
SCALE		SHEET 2		OF 2		DIST.			





DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY / VARIATION														
MADE BY BILL BLODGET		CHECKED D. HEALY		SECTION	BALL-KE	BALL-KF	BALL-KH	BALL-KJ	BALL-KK	BALL-KL	BALL-KA	BALL-KS	BALL-KT						
DATE 6/26/74		DATE 6/27/74		1															
ENG P. E. JANSON		PROD W. LUCAS		ISSUED SECT.															
DATE 8-23-74		DATE 8-23-74		1															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																	
23	A-SP-3700167-0-0	IN PLANT PACK. INST.			REF	REF	REF	REF	REF	REF	REF	REF	REF						
24	A-SP-3700165-0-0	SKID LOAD PACK INST.			REF	REF	REF	REF	REF	REF	REF	REF	REF						
25	A-SP-3700169-0-0	CUST. CUSHIONED PACK. INST.			REF	REF	REF	REF	REF	REF	REF	REF	REF						
26	A-SP-BALL-K-6	BALL-K BASIC CHECKOUT AND ACCEPTANCE																	
		PROCEDURE			REF	REF	REF	REF	REF	REF	REF	REF	REF						
27	A-SP-BALL-K-7	BALL-K BASIC ASSEMBLY PROCEDURE			REF	REF	REF	REF	REF	REF	REF	REF	REF						
28	A-DC-5309414-0	DECAL, UL			1	1	-	-	-	-	-	1	1						
29	A-DC-5309413-0	DECAL, NFPA			1	1	-	-	-	-	-	1	1						
30	I2I1336-02	TAPE			A/R	A/R	-	-	-	-	-	-	-						
31	I2I1255-U-0	PRE FILTER			1	1	-	-	-	-	-	-	-						
32	C-MD-7413659-0-0	SHIPPING BRACKET			2	2	-	-	-	-	-	2	2						
33	B-DD-H765-C	POWER SUPPLY H765-C 120VAC 50/60 HZ NO H754			-	-	-	-	1	-	-	-	-						
34	B-DD-H765-D	POWER SUPPLY H765-D 240VAC 50/60 HZ NO H754			-	-	-	-	-	1	-	-	-						
35	A-PS-3613281-00	DECAL, ADHESIVE BACKED, BALL-K			2	2	1	1	1	1	1	2	2						
36	D-PS-1212405-1	CARD GUIDE, SINGLE			24	24	24	24	24	24	24	24	24						
37	9007086-00	CLAMP, CABLE			1	1	1	1	1	1	-	1	1						
38	D-PS-1211825-Ø1	SLIDE, 3 POS. TILT			-	-	-	-	-	-	-	1 pr	1 pr						
39	A-PS-1212431-ØØ	TAPE, HOOK, MOLDED			-	-	-	-	-	-	-	A/RA/R							
40	A-PS-1212392-Ø1	FILTER, FOAM			-	-	-	-	-	-	-	1	1						
TITLE UNIT ASSY BALL-K				ASSY NO. E-UA-BALL-K-Ø	SIZE A	CODE PL	NUMBER BALL-K-Ø						REV. P	ECO NO					
				SHEET 2 OF 2	DIST.														

DEC FORM DEC 16-(325)-1031-N870
DRA 110

17

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY / VARIATION														
MADE BY BILL BLODGET		CHECKED D. HEALY		SECTION	BALL-KE	BALL-KF	BALL-KH	BALL-KJ	BALL-KK	BALL-KL	BALL-KA	BALL-KS	BALL-KT						
DATE 6/26/74		DATE 6/27/74		1															
ENG P. E. JANSON		PROD W. LUCAS		ISSUED SECT.															
DATE 8-23-74		DATE 8/23/74		1															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																	
1	E-IA-7009769-0-0	CHASSIS 10.5			1	1	1	1	1	1	1	1	1						
2	D-IA-7009768-0-0	COVER, CHASSIS			2	2	-	-	-	-	-	2	2						
3	D-CS-5410864-C-1	POWER DISTRIBUTION BOARD			REF	REF	REF	REF	REF	REF	-	REF	REF						
4	D-PS-1211825-0-0	SLIDE, 3 POS TILT			1 pr	1 pr	-	-	-	-	-	-	-						
5	D-PS-1212405-0	CARD GUIDE, SINGLE			24	24	24	24	24	24	24	24	24						
6	9006071-3	SCREW, PHL TRUSS HD #10-32 X .38			10	10	-	-	-	-	-	10	10						
7	9006020-2	SCREW, PHL FLAT HD #6-32 X .25			4	4	4	4	4	4	-	4	4						
8	D-IA-7411013-0-0	COVER, PANEL 10 1/2 BEZEL (SNAP-ON VENTED)			1	1	-	-	-	-	-	-	-						
9	B-DD-H765-A	POWER SUPPLY H765-A 120V 50/60 HZ			1	-	1	-	-	-	-	1	-						
10	9006020-3	SCREW, PHL. TRUSS HD #6-32 X .25			9	9	5	5	5	5	5	9	9						
11	9006633	WASHER INTERNAL TOOTH LOCK #6			4	4	4	4	-	-	-	-	-						
12	9007651	WASHER EXTERNAL TOOTH #10			6	6	-	-	-	-	-	6	6						
13	9009599	SCREW, PHL FLAT HD (SPECIAL)			6	6	6	6	6	6	-	6	6						
14	9006565	NUT, KEPS, #10-32			6	6	-	-	-	-	-	6	6						
15	DEC-3-(374)-1825-N1174	STICKER, "CONFIGURATION"			1	1	-	-	-	-	-	1	1						
16	D-IA-7010059-0-0	SHIPPING BRKT. ASSY			1	1	-	-	-	-	-	-	-						
17	B-DD-H765-B	POWER SUPPLY H765-B, 240V 50/60 HZ			-	1	-	1	-	-	-	-	1						
18	D-MD-7412184-0-0	CABLE TROUGH CHASSIS			-	-	1	1	1	1	1	-	-						
19	9008408-1	SCR, PH. HD SELF TAP #6-32 X .25			1	1	5	5	-	-	-	-	-						
20	D-UA-BC11A-1Ø-Ø	UNIBUS CABLE, 10 FT			1	1	-	-	-	-	-	1	1						
21	1209224	LATCH MOLDING			4	4	-	-	-	-	-	-	-						
22	9008007-2	SCR PH HD FLT #10-32 X .25			8	8	-	-	-	-	-	-	-						
TITLE UNIT ASSY BALL-K				ASSY NO. E-UA-BALL-K-Ø	SIZE A	CODE PL	NUMBER BALL-K-Ø						REV. P	ECO NO. BALL K-00017					
				SHEET 1 OF 2	DIST.														

DEC FORM DEC 16-(325)-1031-N870
DRA 110

17

THIS IS PRINT SET

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SEQUENCE

A-SP-3700167-0-0
A-SP-3700165-0-0
A-SP-3700169-0-0

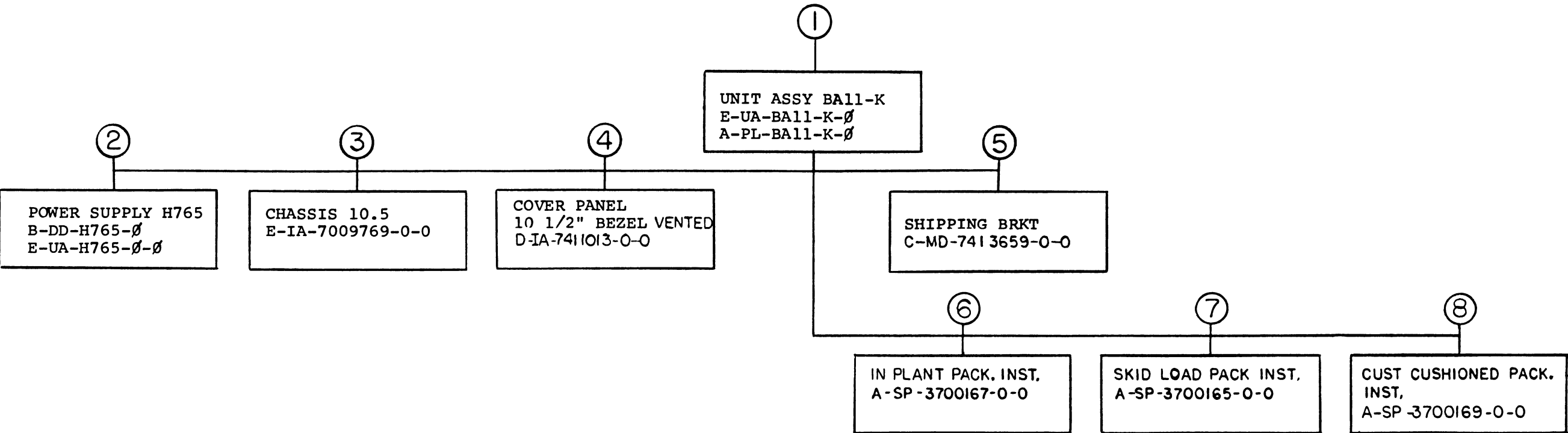
[illegible]

REVISIONS

DATE	CHG. NO.	REV
E.A.	BAIK-4	A
E.A.	BAIK-5	B
W.H.	BAIK-7	C
B.M.	BAIK-8	D
J.H.	BAIK-9	E
H.S.	BAIK-10	F
F.F.	BAIK-11	H
R.P.	BAIK-12	J
R.V.	BAIK-13	K
B-77	BAIK-14	L
I-77	BAIK-15	M
II-78	BAIK-MLI7	N

USED ON OPTION/MODEL		DRN.	DATE	TITLE
		J. FERGUSEN	5/22/74	
		CHK'D.	DATE	
11/05-S		D. HEALY	7/3/74	
11/35-S		PROJ. ENG.	DATE	
		E. Anton	9/4/74	
		PROD.	DATE	
		R.H. Pateron	10/1/74	
		FIELD SERV.	DATE	
		R.L. Gates	9/13/74	
SHEET 1 OF 4				

SIZE	CODE	NUMBER		REV
B	DD	BALL-K		N
DIST				



TITLE	SHEET 2 OF 4	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BALL-K		B	DD	BALL-K	N

ML

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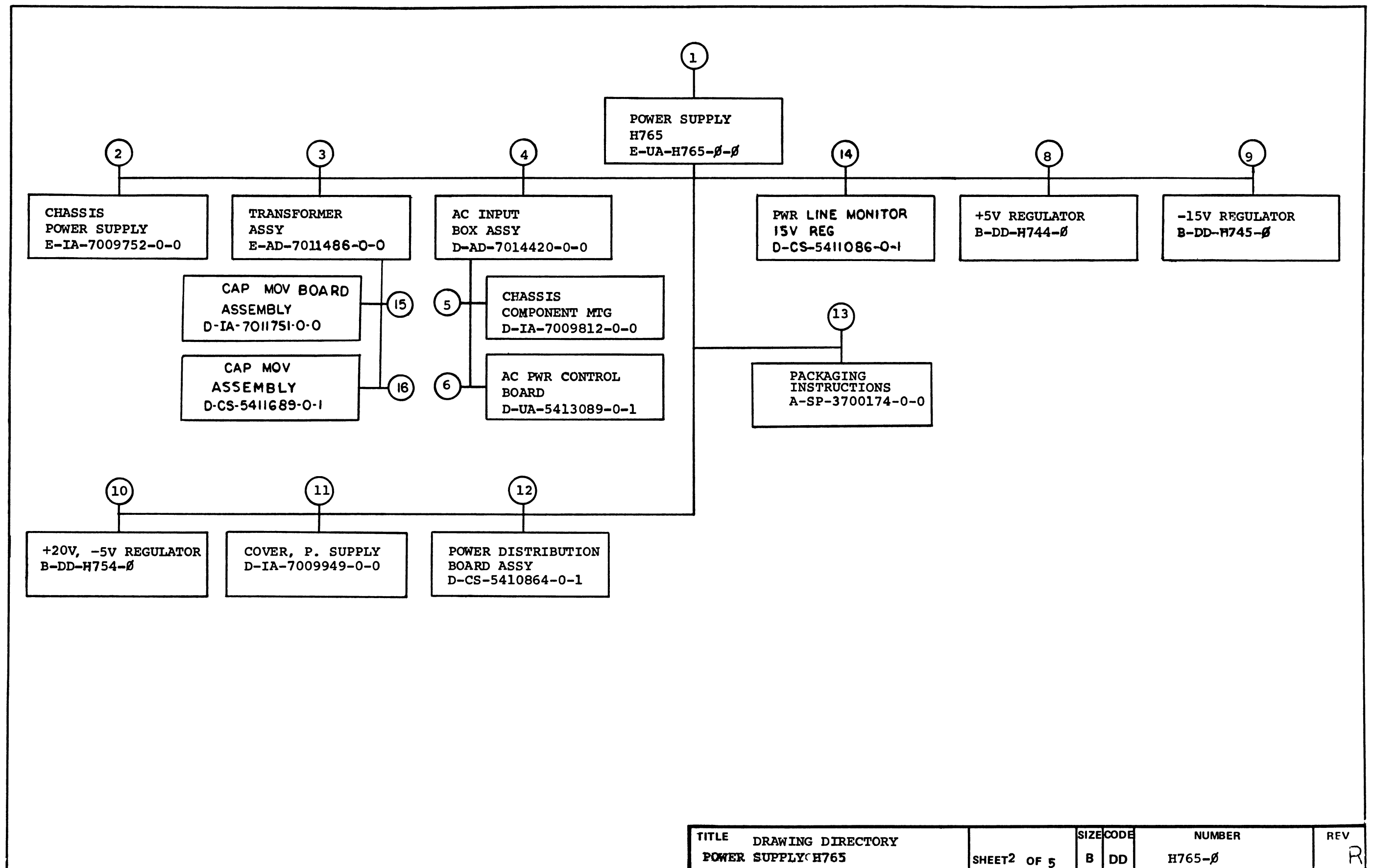
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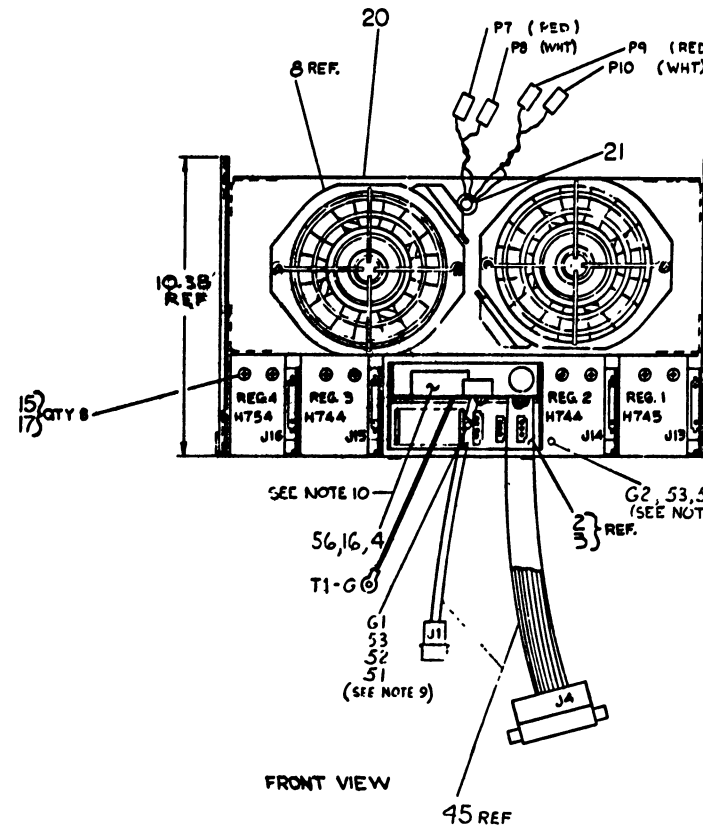
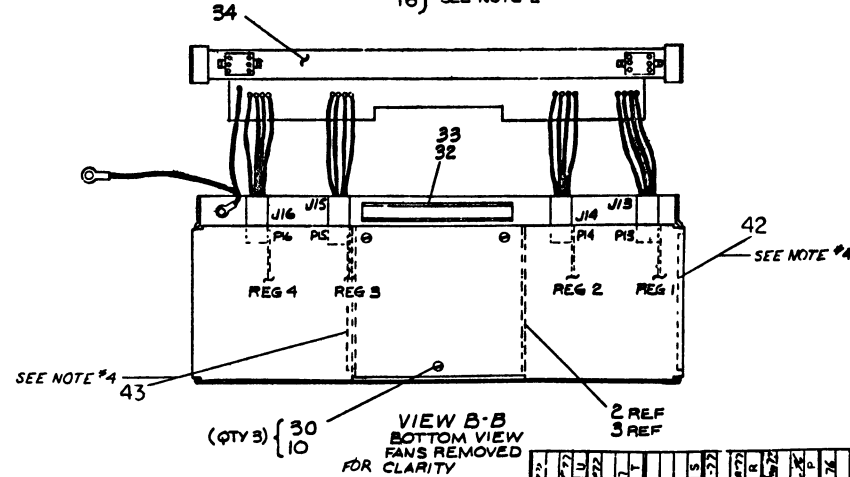
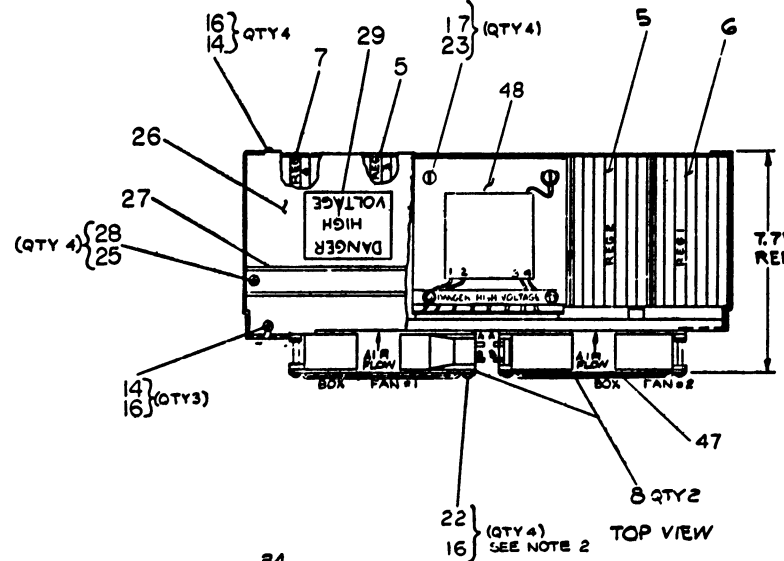
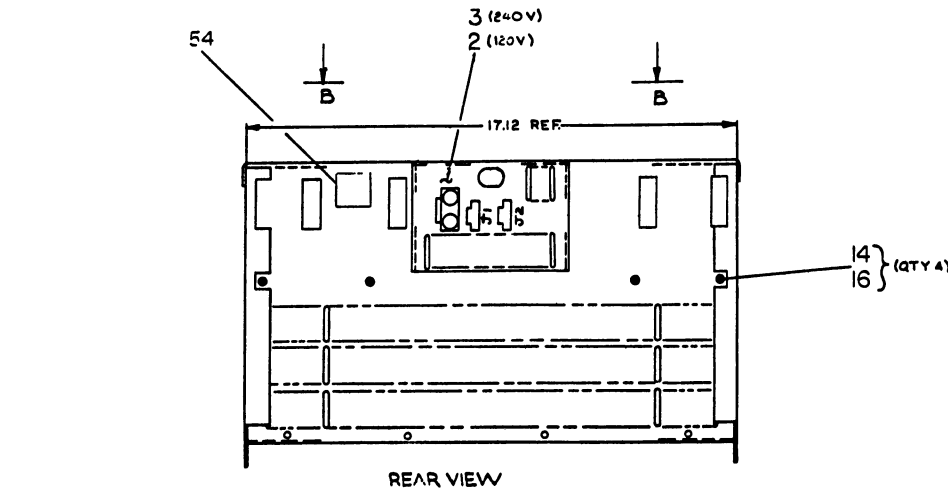
DRB 106



NUMBER	VARIATION
H765-A	120V 50/60 HZ
H765-B	240V 50/60 HZ
H765-C	120V 50/60 HZ NO H754
H765-D	240V 50/60 HZ NO H754
H765-E	120V 50/60 HZ NO H754
H765-F	240V 50/60 HZ NO H754

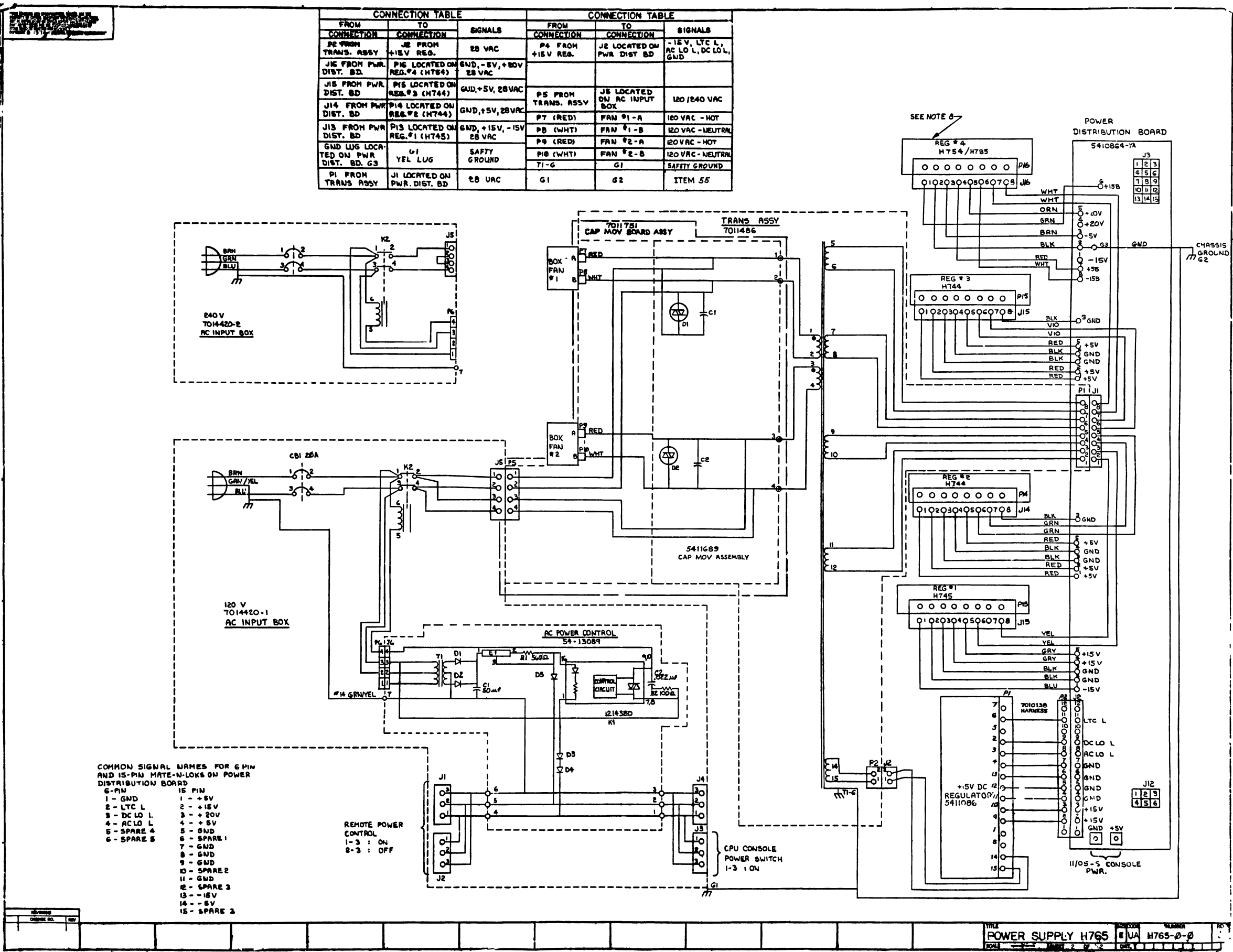
NOTES CONT'D
10. ITEM 16 (SCREW) WASHER) TO BE USED TO MOUNT 54108 (ITEM 4) IN AC INPUT BOX (ITEM 2 OR 3) IN A,B,C,D VERSION. IN P&R VERSION, INSTALL SCREW & WASHER IN MOUNTING HOLES. THEY WILL BE USED ON A HIGHER ASSEMBLY.

NOTES
1. SEE TRANSFORMER ASSEMBLY AD TO 1000-
SHEET 2 FOR DIMENSIONS ORIENTATION
OF CLAMP PLUG WIRES.
2. TIGHTEN FAN SCREWS TO 10 IN LBS WITH
A TORQUE SCREW DRIVER.
3. USE ITEM 34 IN PLACE OF ITEM 32
WHEN USING ROTARY FANS.
4. INSTALL A B S VINYL VIEW B B ITEM 42
AND 43, CENTER 1/4 INCH FROM BOTTOM
AND SIDES ON INSIDE WALL.
5. SEE EXTERIOR OF THE WASHER UNDER MOUNTING
SCREW FOR BOND TRANSFORMERS ONLY.
6. GREEN YELLOW WIRE FROM TRANSFORMERS
TO BE FASTENED UNDER REGULATOR
MOUNTING SCREW.
7. IN EARLIER VERSIONS OF THE TRANS-
FORMER ASSEMBLY A CABLE CLAMP
WAS USED IN PLACE OF THE 3-
WIRE TO DRESS THE TRANSFORMER
WIRE ALONG THE TRANSFORMER
BODY.
8. ITEM 7 - H754 IS NOT USED IN VARIATIONS
C & D.
9. ITEM 53 IS TO BE USED TO PREVENT CORROSION
OF CHASSIS AT GROUND STUD.



ITEM	QTY	DESCRIPTION	PART NO.	REV.
1	1	SCR PH HD 6-32X1/4	9006020-1	56
2	1	CABLE GND	703825-02	55
3	1	DECAL	A DC 7418261-00	54
4	1	GREASE CONDUCTOR	490173-01	53
5	1	WASHER LOCK EXT TOOTH# 32	9008072	52
6	1	NUT KEP # 8-32	9006563	51
7	1	TERMINAL BULK 200	9006563	50
8	1	WIRE BOND 200	9006563	49
9	1	TRANSFORMER ASSEMBLY E-AD 701486-00	48	
10	1	FAN GUARD	1212567	47
11	1	HARNESS INTERCONN. DIA 7010133-00	45	
12	1	AB S VINYL 475 X 35	1210984-02	43
13	1	AB S VINYL 475 X 6	1210984-04	42
14	1	TEST PROCEDURE	A-SP-H765-0-1	40
15	1	TESTER C.S.	A-CS-H765-TA-1	39
16	1	TESTER U.A.	E-UA-H765-TA-1	38
17	1	TESTER P.L.	A-PL-H765-TA-0	37
18	1	H765 POWER SUPPLY ASSEMBLY PROCEDURE	A-SP-H765-0-9	36
19	1	PACKAGING INSTRUCTIONS	A-SP-37001400	35
20	1	PWR DISTRIBUTION BD	D-CS-51064-0-1	34
21	1	PERMA BOND	9009157	33
22	1	GROMMET STRIP	9008291	32
23	1	TE WRAP 1/8W	9007880	31
24	1	WASH, C'SK # 6	9008870	30
25	1	STICKER DANGER HIGH VOLTAGE	3610 867	29
26	1	WASH, INT TOOTHLOCK # 8	9006634	28
27	1	TROUGH WIRE	D-1A1009450-00	27
28	1	COVER, POWER SUPPLY	D-1A1009450-00	26
29	1	SCR PH HD TRUSS 5-32X1/4	9006040-3	25
30	1	WIRE BOND 10-32	9006563	24
31	1	SCR PH HD TRUSS 10-32X1/4	9006073-3	23
32	1	SCR PH HD TRUSS 6-32X1/4	9006031-3	22
33	1	GROMMET 501D	9007016	21
34	1	CHASSIS POWER SUPPLY	E-1A-1009752-00	20
35	1	CLAMP CABLE	D-1A-1009752-00	19
36	1	WASH INT TOOTH # 10	9006635	17
37	1	WASH INT TOOTH # 6	9006633	16
38	1	SCR PH HD TRUSS 10-32X1/4	9006073-3	15
39	1	SCR PH HD TRUSS 6-32X1/4	9006020-3	14
40	1	DECAL NEG	D-1A-1009450-00	13
41	1	WIRE BOND	9006563	12
42	1	SCR PH FLT HD 6-32X 31	9008404-2	10
43	1	WIRE BOND	9006563	9
44	1	FAN, 115 VAC 50/60 HZ	1211714	8
45	1	+20V REGULATOR (H754)	B-DO-H754-0	7
46	1	+15V REGULATOR (H745)	B-DO-H745-0	6
47	1	+5V REGULATOR (H744)	B-DO-H744-0	5
48	1	PWR BD (+15V REG)	E-1A-5411086	4
49	1	AC INPUT BOX ASSY 230V	D-AD-701420-2-0	3
50	1	AC INPUT BOX ASSY 115V	D-AD-701420-1-0	2
51	1	TRANSFORMER ASSEMBLY	D-AD-701420-0-0	1

FIRST USED ON OPTION MODEL		QTY		DESCRIPTION		PART NO.	
B-11-K							
DIMENSIONAL TOLERANCE		DATE		E-1A-5411086		TITLE	
DIMENSIONS ARE IN INCHES		DATE		E-1A-5411086		POWER SUPPLY, ---	
UNLESS OTHERWISE SPECIFIED		DATE		E-1A-5411086		H765	
FRACTIONAL DECIMALS		DATE		E-1A-5411086		REV	
FRACTIONAL DECIMALS		DATE		E-1A-5411086		EUA H765-0	
FRACTIONAL DECIMALS		DATE		E-1A-5411086		OF 2	

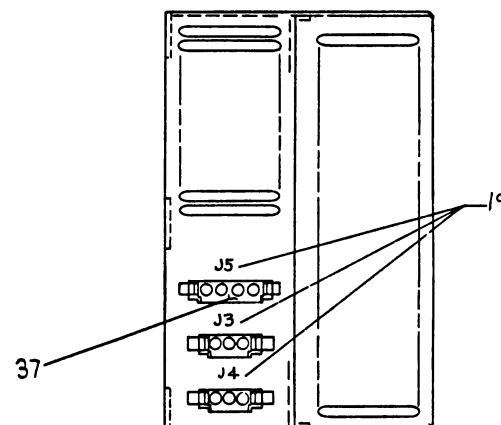
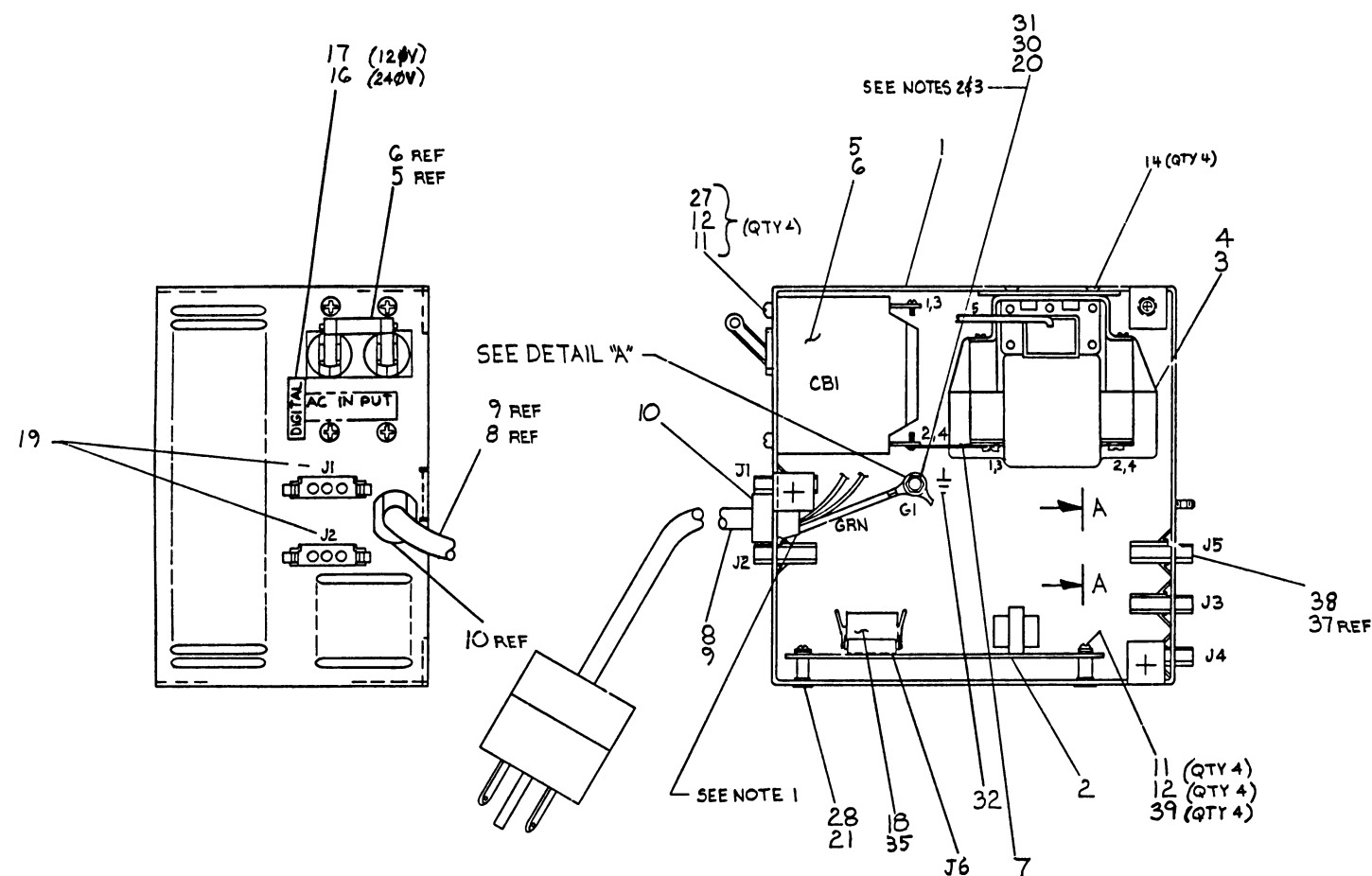
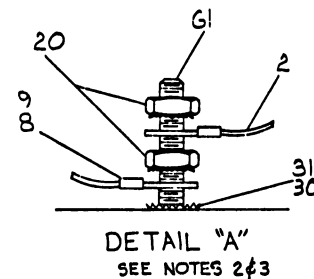


NOTES:

1. LEAVE .5IN $\pm$ 2IN CF OUTER INSULATION OF LINE CORD INSIDE BOX.
2. REMOVE PAINT MASK FROM GI ONLY AND APPLY CONDUCTIVE GREASE TO AREA AROUND STUD GI BEFORE INSTALLING ITEMS*31 (LOCKWASHER), LUG ON GRN/YEL WIRE AND*20 (KEPNUT).
3. ENSURE THAT LUG CONNECTED TO GRN/YEL WIRE FROM LINE CORD, WASHER ITEM*31, AND KEPNUT ITEM*20 ARE THE FIRST ITEMS INSTALLED ON GI. SEE DETAIL "A"
4. STRIP LENGTH FOR ITEM*36 AND ITEM*29 SHALL BE .250 $\pm$.015.
5. STRIP LENGTH FOR ITEM*37
 - A. HAND CRIMP .187 $\pm$.015
 - B. AUTOMATIC STRIP .156 $\pm$.015
6. STRIP LENGTH FOR ITEM*35
 - A. HAND CRIMP .203 $\pm$.015
 - B. AUTOMATIC STRIP .182 $\pm$.015

LEGEND

NUMBER	VARIATION
7014420-1	120V 47-63HZ 12A
7014420-2	240V 47-63HZ 6A



4	4	WASHER, FLAT NYLON	9006707-00	39
1	1	CONN 4 PIN	1209350-04	38
4	4	SOCKET, MATE-N-LOCK	1209379	37
1	3	TERM BLUE RING	9007928	36
4	4	CONNECTOR, SOCKET	1212170-00	35
A/R	A/R	WIRE #18 BRN	9107360-11	34
A/R	A/R	WIRE #18 BLU	9107350-66	33
1	1	DECAL, SAFETY GROUND	A-DC-3612680-01	32
1	1	WASHER, EXT TOOTH #3	9008072	31
A/R	A/R	GREASE, CONDUCTIVE	4901173-01	30
3	1	TERMINAL, RED RING	9007930	29
4	4	SCR. PH FL HD G-32 X 1/4	9006020-02	28
4	4	WASHER, FLAT #6	9006656	27
REF	REF	A.C. INPUT BOX	A-5P-7014420-09	26
REF	REF	ASSEMBLY PROCEDURE		
REF	REF	TESTER PARTS LIST	A-PL-7009311-7A-0	25
REF	REF	TESTER TEST PROCEDURE	A-SP-7003811-0-8	24
REF	REF	TESTER U.A.	A-SP-7009811-0-8	23
REF	REF	TESTER C5.	A-C5-7009811-0-8	22
4	4	SPACER G-32 X 3/8"	9006844	21
2	2	NUT, KEPS #8-32	9006563	20
1	1	DECAL	A-DC-7409373-1	19
1	1	CONNECTOR, 4 PIN	1212167-01	18
-	1	DECAL 120V 47-G3 HZ 12A	A-DC-7412303-1	17
1	1	DECAL 240V 47-G3 HZ 6A	A-DC-7412380-1	16
4	4	SCR. PH FL HD #6-32 X 5/8	9006624	15
4	4	SCR PH FL HD 4-40 X 1/4	9000039-06	14
4	4	NUT X #6 #6-32	9000185	13
8	8	WASHER, INT TOOTH #6	9006633	12
8	8	SCR PHL PAN HD #6-32 X 25	9006020-1	11
1	1	STRAIN RELIEF	9008509	10
-	1	POWER CORD 240V	D-AD-7012500-1	9
-	1	POWER CORD 120V	D-AD-7012500-0	8
2	2	JUMPER STRAP	1214074-02	7
-	1	CIRCUIT BREAKER 10A	1212124-03	6
-	1	CIRCUIT BREAKER 20A	1212124-05	5
-	1	CONTACTOR 240V	1214283-01	4
-	1	CONTACTOR 120V	1214283-00	3
1	1	AC PWR. CONTR BOARD	D-C5-5413089-01	2
1	1	CHASSIS, COMP. MTG	D-IA-7009312-0-0	1

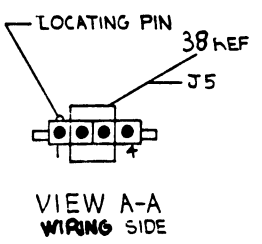
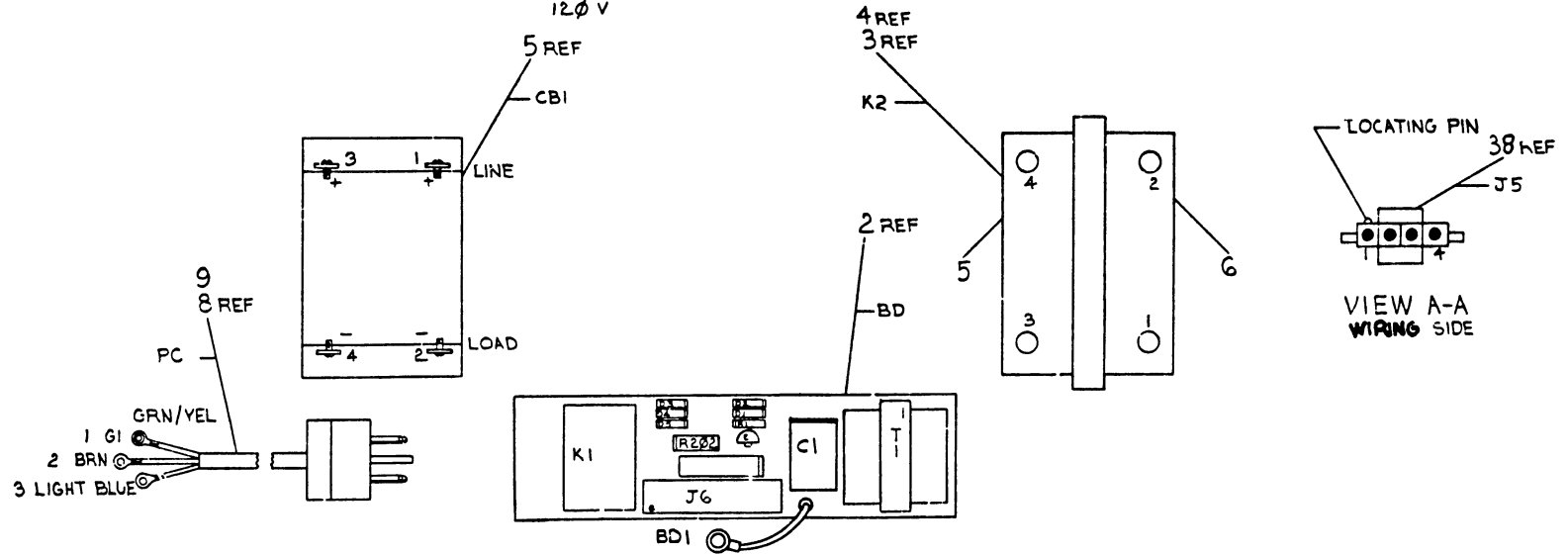
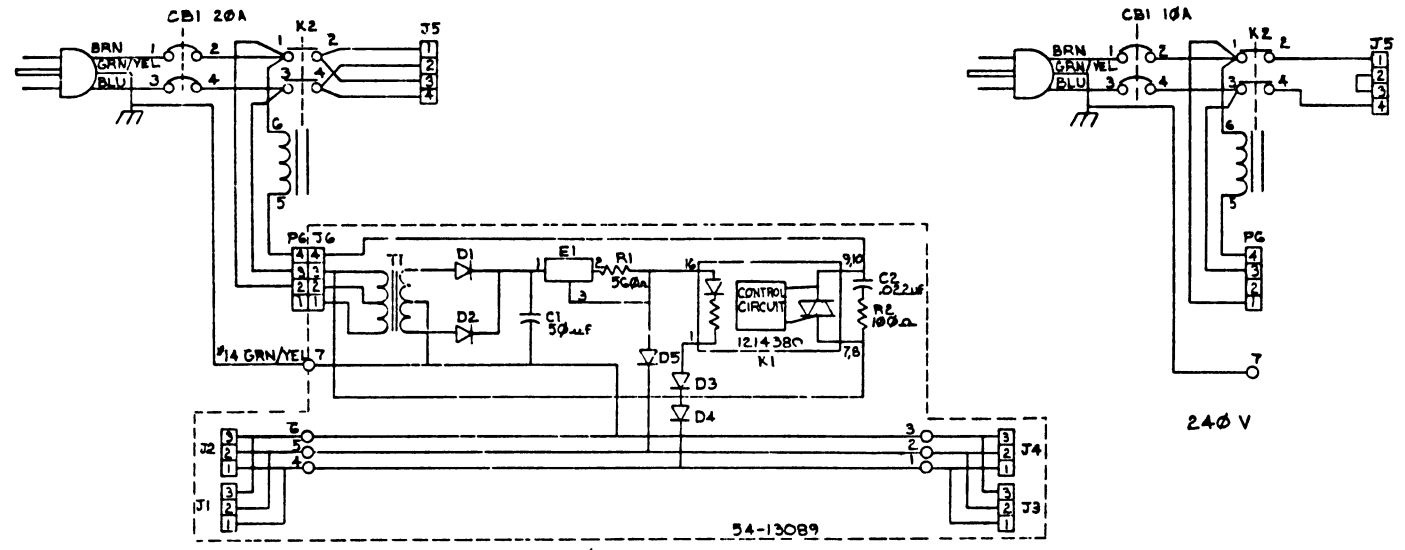
	TO14420-2 TO14420-1	CHASSIS, COMP, MFG	DESCRIPTION		DWG./PART NO.	ITEM NO.						
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES										
QUANTITY & VARIATION	✓	ANGLES 10° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES								
		SURFACE QUALITY		IN	MEDIUM	☐	0.004	0.008	0.012	0.018	0.024	0.030
		MICROFINES		PREFERRED	☐	0.012	0.018	0.025	0.04	0.063	0.1	
PROJECTION		DRNGD <i>Home</i>	6-30-72	FIRST USED ON H765								
OVER SURFS AND ALL SHARP CORNERS		CHKD <i>S.M.</i>	7-26-72	TITLE		AC INPUT BOX ASSY						
		ENG. <i>D. W.</i>	9-27-72									
		PROJ. ENG. <i>R. W.</i>	8-26-72									
NOT SCALES DWG		PROD. <i>B. W.</i>	1-25-72									
		NEXT HIGHER ASSY.										
		E-UK-H765-0-0	SIZE ☒		NUMBER	REV.						
PARTS LIST		SCALE	D	AD7014420-0-C	B							
		SHEET	1	OF 2	DIST.							

REVISING	
CHK	CHANGE NO.
9C	701420-0001 A
- R. KENNEDY	
K. J. B. 10/10/68	
ER	701420-1A 0002 B
- W. F. BAUSHA	
K. J. B. 10/10/68	

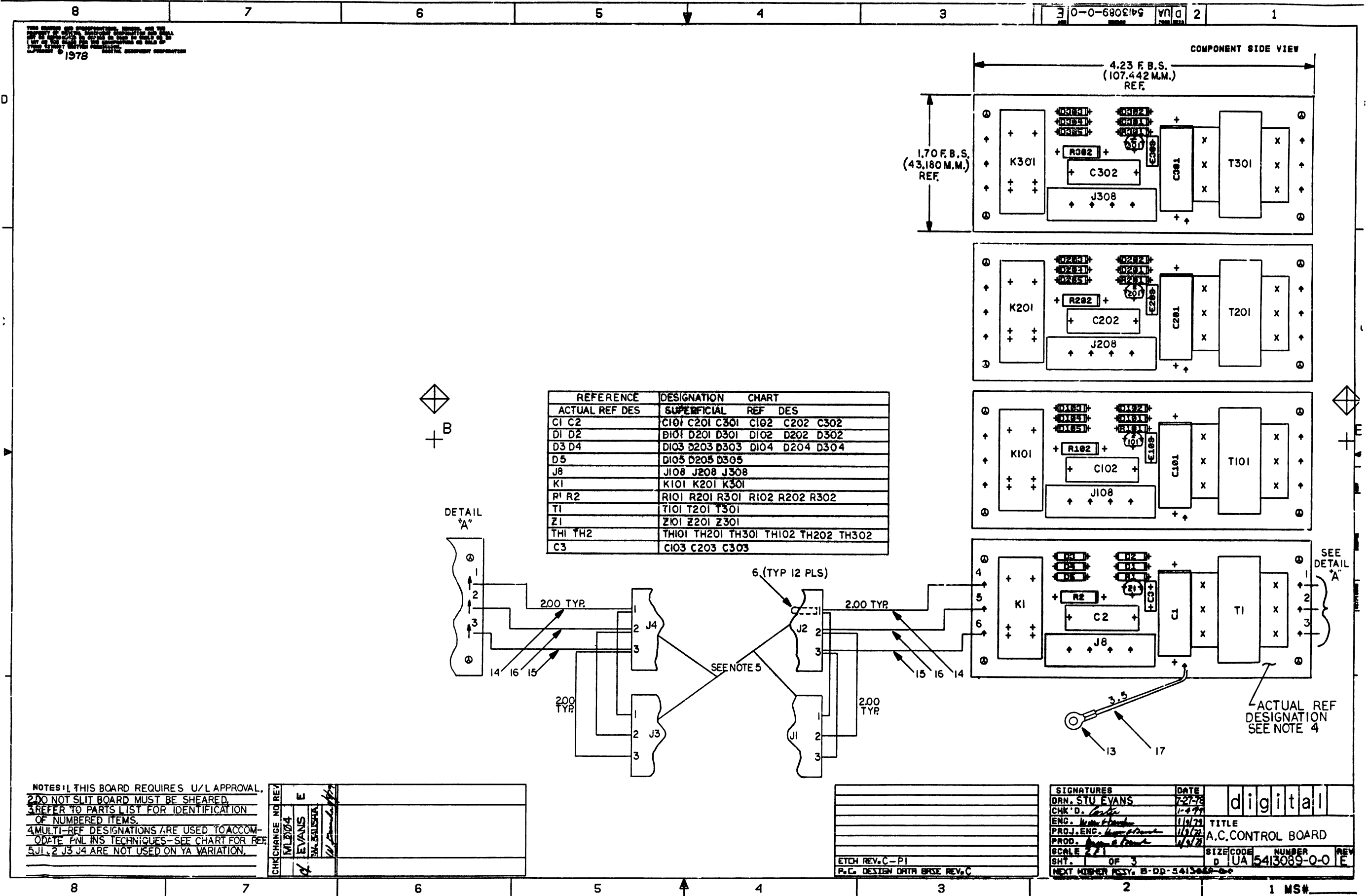
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WIRE TABLE-1 VAR 120V											
ITEM NO	DESCRIPTION	FROM			TO			PRECUT WIRE			
	AWG.	COLOR	STRIP LENGTH	CONN	WITH	STRIP LENGTH	CONN	WITH	LENGTH		
5	14	GRN/YEL	SEE NOTE 3	PC-1			G1				
6	14	BRN		PC-2			CBI-1				
8	14	BLU		PC-3			CBI-3				
33	18	BLU	SEE NOTE 4	K2-4	36	SEE NOTE 5	J5-2	37	3.0 ± 0.25		
							J5-4	37	3.0 ± 0.25		
34	18	BRN	SEE NOTE 4	K2-2	36	SEE NOTE 5	J5-1	37	3.0 ± 0.25		
							J5-3	37	3.0 ± 0.25		
34	18	BRN	SEE NOTE 4	K2-1	36	SEE NOTE 6	P6-2	35	3.5 ± 0.25		
3	18	YEL	SEE NOTE 4	K2-1			K2-6		3.5 ± 0.25		
7				K2-1			CBI-2		STRAP		
33	18	BLU	SEE NOTE 4	K2-3	29	SEE NOTE 6	P6-3	35	3.0 ± 0.25		
7				K2-3			CBI-4		STRAP		
3	18	YEL	SEE NOTE 4	K2-5		SEE NOTE 6	P6-4	35	4.75 ± 0.25		
2	18	GRN/YEL	SEE NOTE 6	BD-1			G1				

WIRE TABLE-2VAR 240V										
ITEM	DESCRIPTION		FROM			TO			PRECUT	
NO	AWG	COLOR	STRIP LENGTH	CONN	WITH	STRIP LENGTH	CONN	WITH	WIRE LENGTH	
9	14	GRN/YEL	SEE NOTE 3	PC-1			G1			
9	14	BRN		PC-2			CBI-1			
9	14	BLU		PC-3			CBI-3			
33	18	BLU	SEE NOTE 4	K2-4	29	SEE NOTE 5	J5-4	37	3.0±0.25	
34	18	BRN	SEE NOTE 4	K2-2	29	SEE NOTE 5	J5-1	37	3.0±0.25	
34	18	BRN	SEE NOTE 5	J5-2	37	SEE NOTE 5	J5-3	37	2.0±0.25	
34	18	BRN	SEE NOTE 4	K2-1	36	SEE NOTE 6	P6-1	35	3.5±0.25	
4	18	YEL					K2-6		3.5±0.25	
7	—	—	—	K2-1	—	—	CBI-2	—	STRAP	
33	18	BLU	SEE NOTE 4	K2-3	29	SEE NOTE 6	P6-3	35	3.0±0.25	
7	—	—	—	K2-3	—	—	CBI-4	—	STRAP	
4	18	YEL		K2-5	—	SEE NOTE 6	P6-4	35	4.75±0.25	
2	18	GRN/YEL	SEE NOTE 6	BD-1			G1			



REVISIONS		
CHK	CHANGE NO.	REV.



NOTES: 1. THIS BOARD REQUIRES U/L APPROVAL.
2. DO NOT SLIT BOARD MUST BE SHEARED.
3. REFER TO PARTS LIST FOR IDENTIFICATION OF NUMBERED ITEMS.
4. MULTI-REF DESIGNATIONS ARE USED TO ACCOMMODATE PNL INS TECHNIQUES—SEE CHART FOR REF.
5. J1, 2 J3 J4 ARE NOT USED ON YA VARIATION.

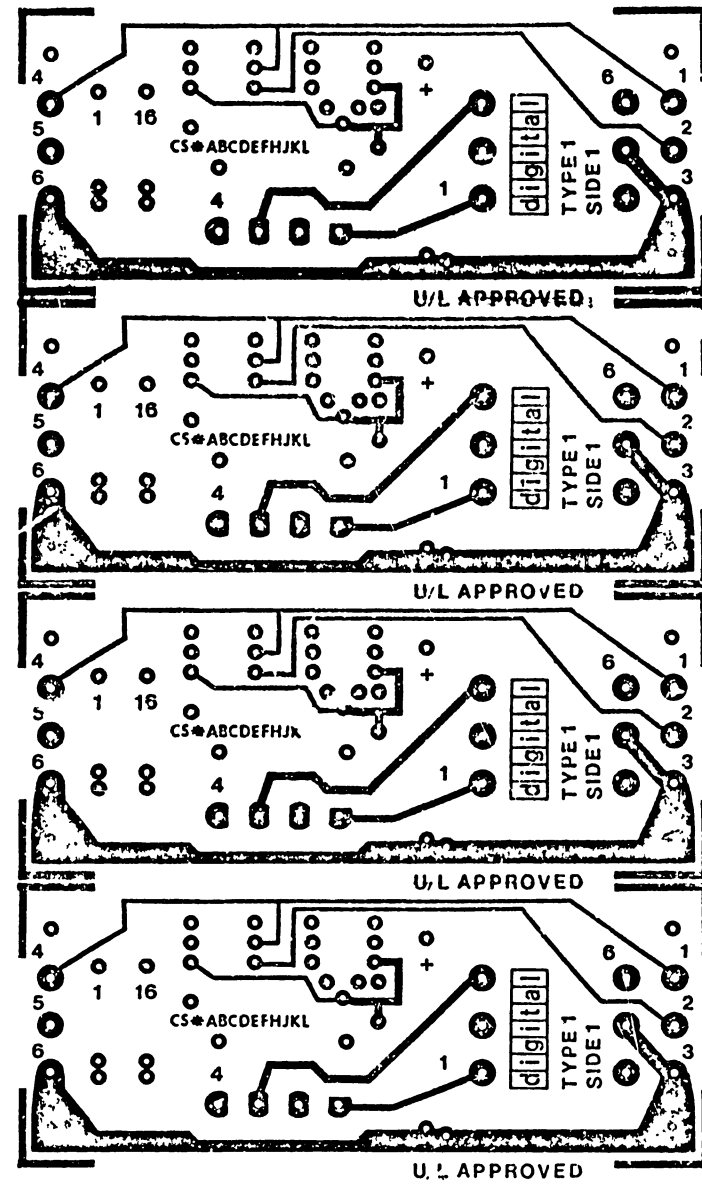
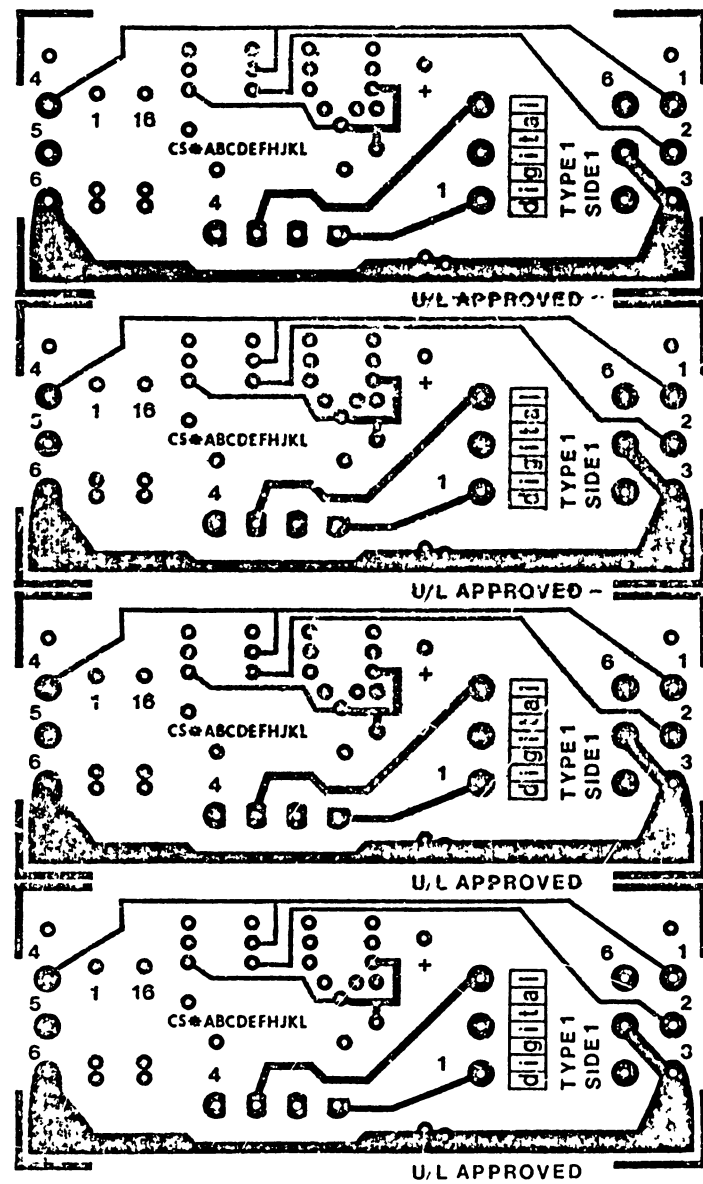
CHK	CHANGE	NO	REV	DATE	BY
1	ML	1004	E	1/10/78	EVANS
2	ML	1004	E	1/10/78	BAISHA
3	ML	1004	E	1/10/78	BAISHA

ETCH REV. C—PI
P.C. DESIGN DATA BRSE REV. C

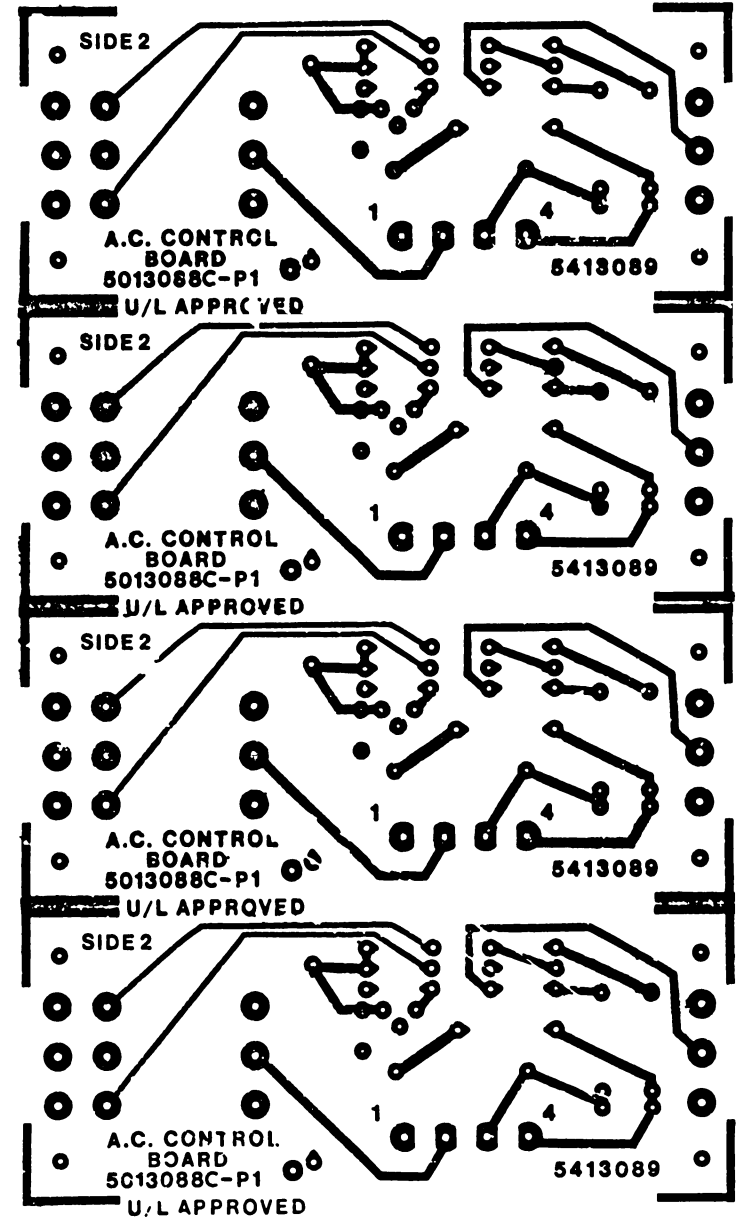
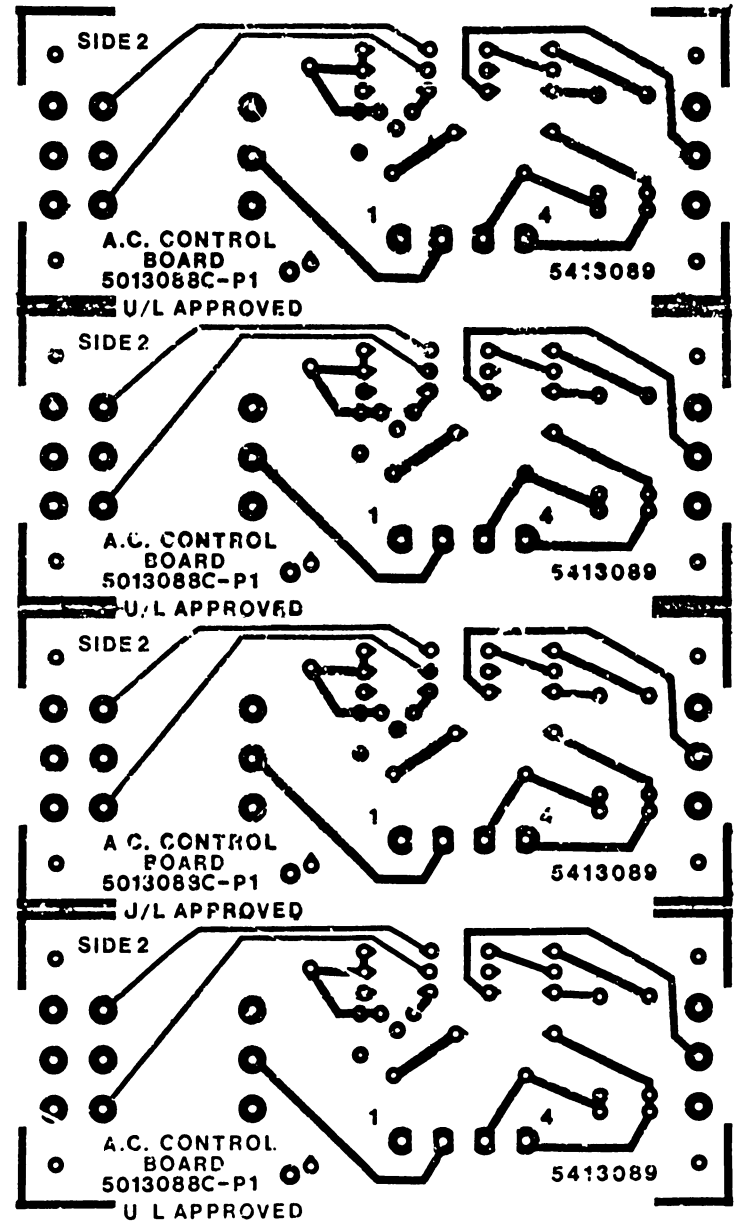
SIGNATURES	DATE	TITLE
DRN. STU EVANS	7-27-78	digital
CHK'D. <i>[Signature]</i>	1-4-79	
ENG. <i>[Signature]</i>	1/10/78	
PROJ. ENG. <i>[Signature]</i>	1/10/78	A.C. CONTROL BOARD
PROD. <i>[Signature]</i>	1/10/78	
SCALE 2:1	OF 3	SIZE CODE
SHT.		NUMBER
NOT HIGHER ASSY. B-DD-5413089-0-0		REV



5413089-2



TITLE		SIZE CODE	NUMBER	REV
AC. CONTROL BOARD		D UA	5413089-2-0	E
SCALE 2: 1		SHEET 2 OF 3	DIST	



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MFG SET

TEST PROCEDURE	A-SP-H744-0-3
MFG SPEC	A-SP-H744-0-8
PACKAGING INST	A-PI-3700074-0-0

UNIT VARIATIONS

[illegible]

REVISIONS		USED ON OPTION/MODEL		DRN.	DATE	TITLE	
CHK	CHANGE NO.	REV.		11/45		D. FONTAINE	2-4-72
G. H.	00019	R				CHK'D.	DATE
JA	00020	S				D. FONTAINE	2-4-72
						PROJ. ENG.	DATE
						G. POTTER	2-24-72
						PROD.	DATE
						A. HIRSCH	2-24-72
SHEET 1 OF 4			SIZE B		CODE DD	NUMBER H744-0	
			DIST.				REV S

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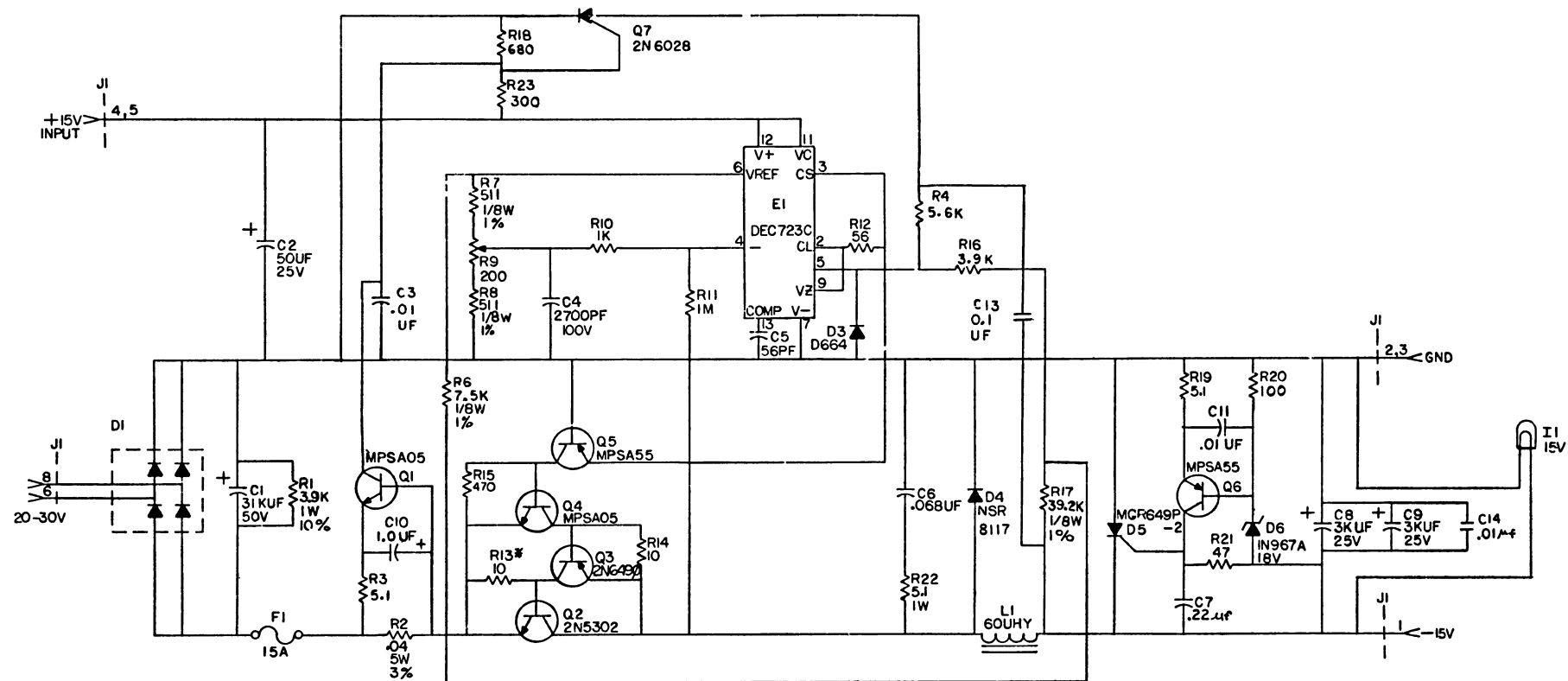
A-SP-11/45 TA-2
A-SP-H745-Ø 8
A-PI-3700074--0-0

[illegible]

REVISIONS			USED ON OPTION/MODEL		DRN.	DATE	TITLE									
DATE	CHG. NO.	REV	11/45		D.FONTAINE	2-7-72	--15V REGULATOR									
	H745-16	K			CHK'D.	DATE										
	H745-17	L			J GAUDETTE	2-17-72	SIZE		CODE	NUMBER				REV		
	H745-18	M			PROJ ENG.	DATE	B	DD	H745-Ø				S			
9-76	H745-19	N			G.POTTER	2-25-72	DIST									
10-76	H745-20	P			PROD.	DATE										
7-77	H745-22	R			A.HUSCH	2-25-72										
10-78	H745-MLØ23	S			FIELD SERV.	DATE										
					A.ZINS	2-25-72										
			SHEET 1	OF 2												

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* FUSIBLE
UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4W, 5%

QTY		REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO
PARTS LIST					
ETCH BOARD REV E					
D664		IN 3606	D45H 8		
NSR 8117			2N 6028		
MCR 649P - 2					
IN 967A		SAME			
2N 5302					
MPS A05					
MPS A55					
DEC NO.		EIA NO.	DEC NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART					
DRN. <i>Page 1</i>		DATE 11-8-71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHKD. <i>Amel Mene</i>		DATE 1-8-71			
ENG. <i>Page</i>		DATE 1/1/72			
PROJ. <i>Page</i>		DATE 1/1/72			
PRG. <i>Page</i>		DATE 1/1/72	TITLE -15V REG		
NEXT HIGHER ASSY					
SIZE CODE		NUMBER			
DCS		H745 - 0-1	AA		
SHEET. 1 OF 1		DIST			

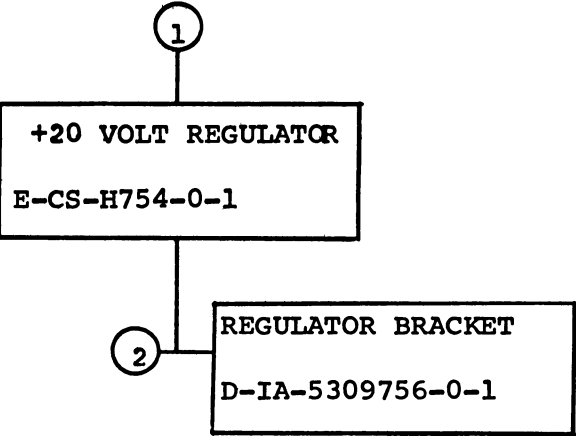
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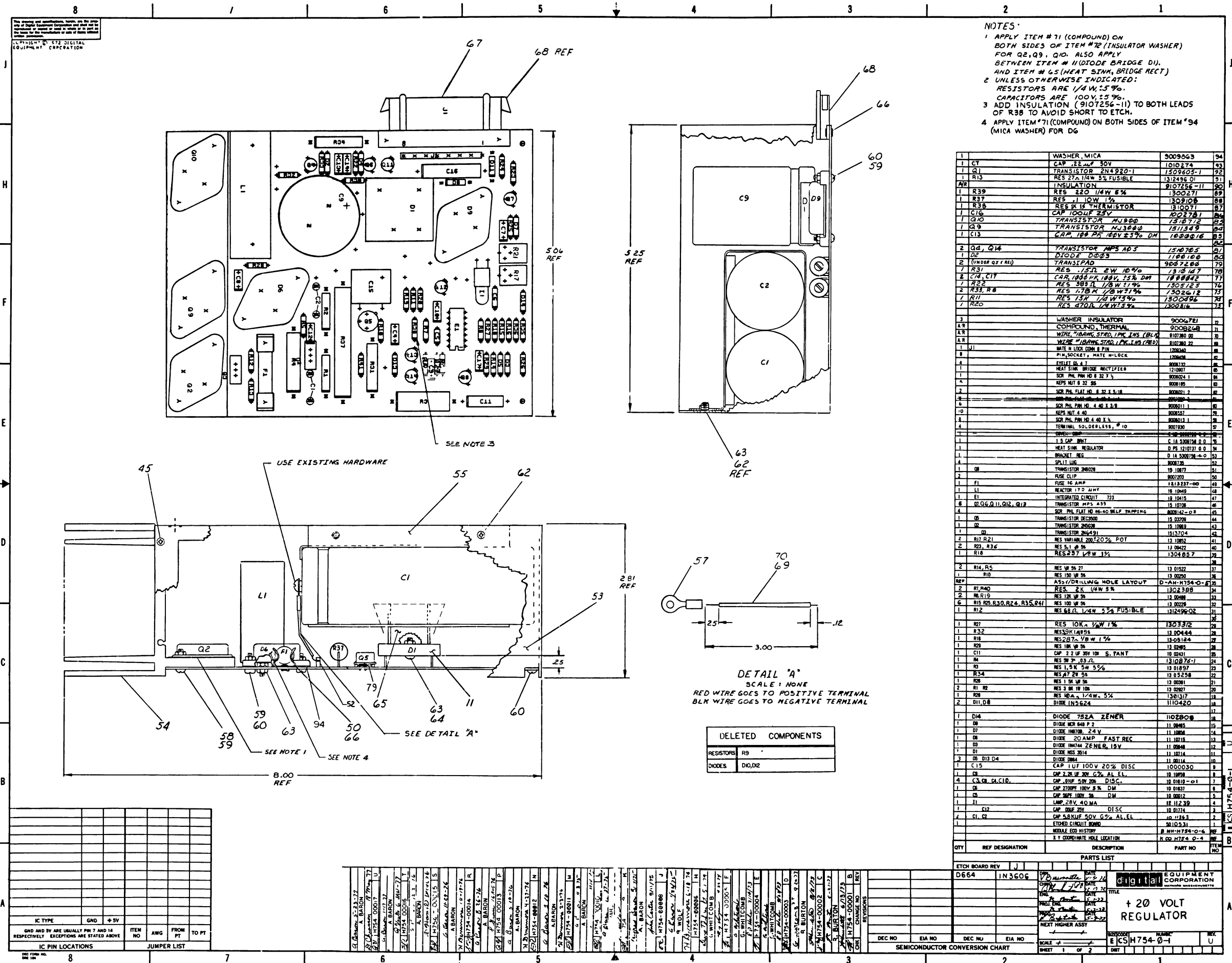
SEQUENCE

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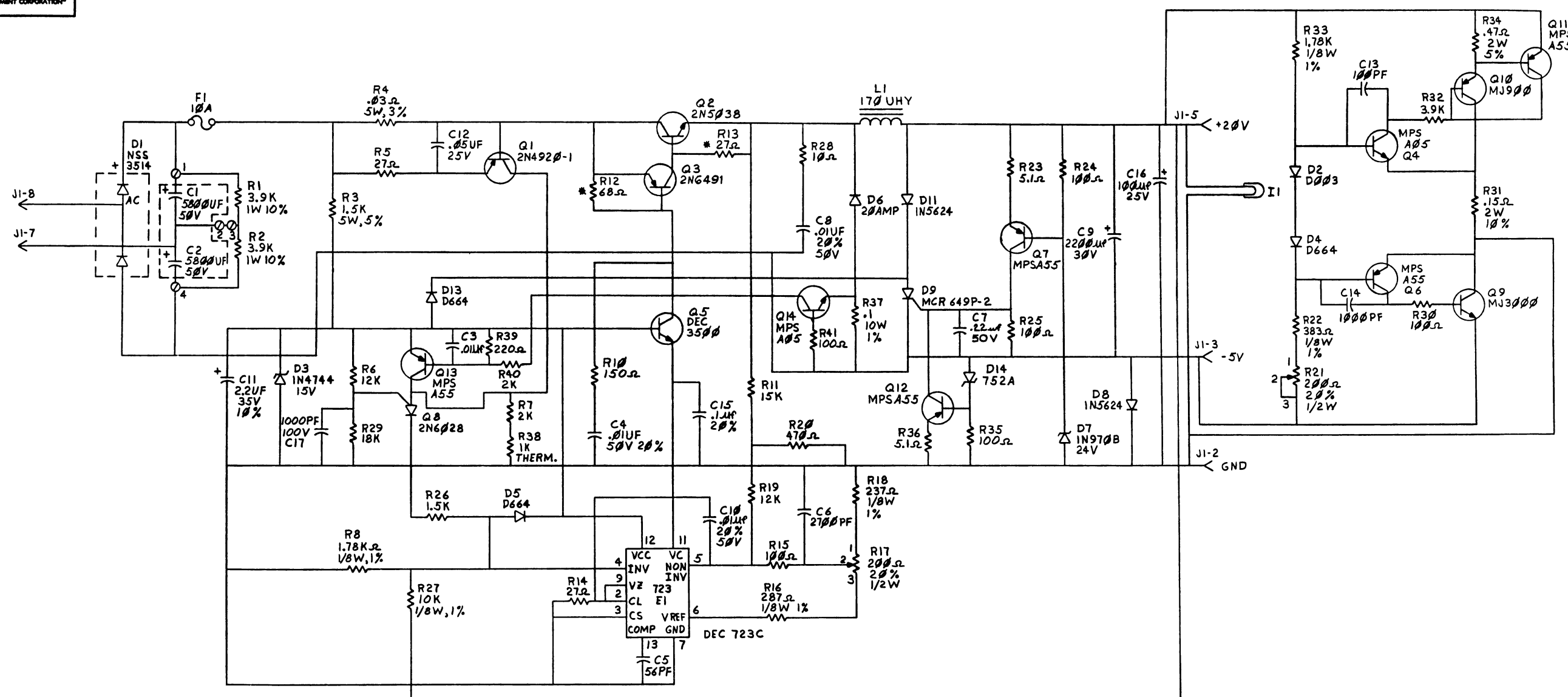
REVISIONS			USED ON OPTION/MODEL				DRM.	DATE	TITLE									
DATE	CHG. NO.	REV					J.Fleming	2/21/74	+20 VOLT REGULATOR									
							CHK'D.	DATE										
							J.Fleming	2/21/74										
							PROJ ENG.	DATE										
							E. A. L. L. L.	3-13-74										
							PROD.	DATE	SIZE	CODE	NUMBER						REV	
							Paul L. L. L.	2-14-74	B	DD	H754-0						B	
							FIELD SERV.	DATE	DIST									
							Walt A. L. L.	7/25/74										
			SHEET 1 OF 3															



TITLE		SIZE		CODE		NUMBER		REV
+20 VOLT REGULATOR		SHEET 3 OF 3		B	DD	H754-Ø		B



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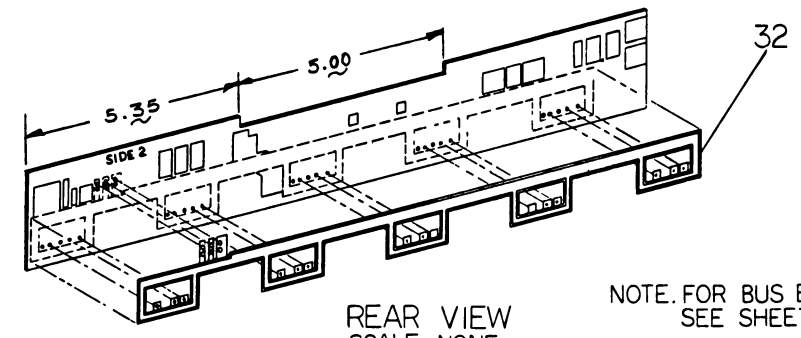
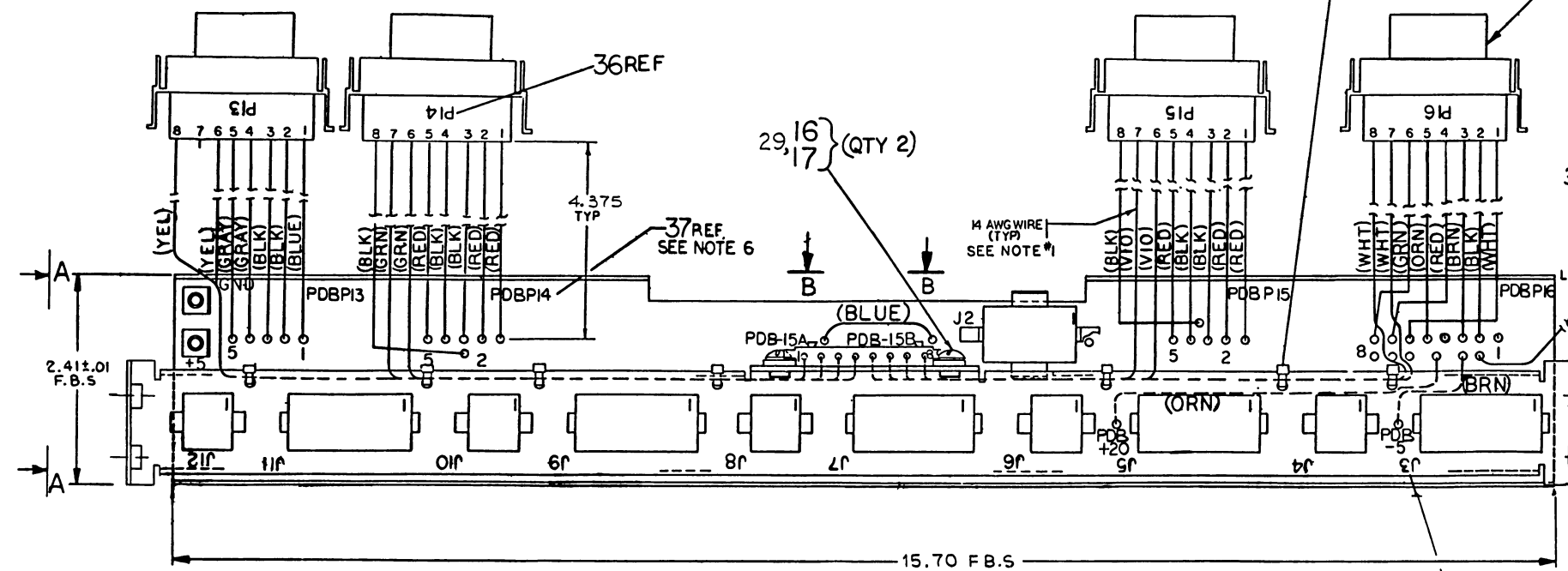
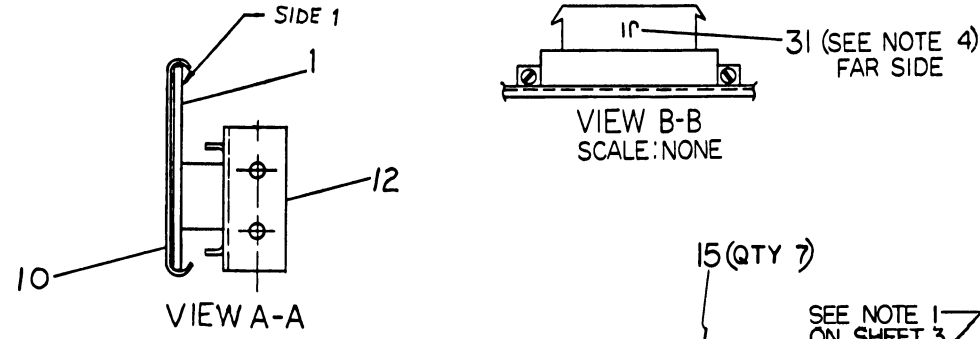


* FUSIBLE RESISTOR

DRN V BISSONNETTE	8-29-72	FIRST USED ON	H754	digitized
CHK'D R.VOWLES	2-17-72	TITLE	+ 20 VOLT REGULATOR	
ENG. R. BURTON	5-7-73			
PROJ. ENG. R.BURTON	5-7-73			
PROD. L.BAPTISTE	5-9-73			
NEXT HIGHER ASSY.				
	+			
	-			
SCALE	+			
SHEET	2 OF 2	SIZE D	CODE CS	NUMBER H754-Ø-I
				REV U

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- NOTES:**
1. FOR HAND WIRING INFORMATION SEE WIRE TABLE ON SHEET 3.
 2. MATE-N-LOK FIXTURES (ITEM 28) MUST BE USED DURING WAVE SOLDERING OF J2, J3-J12
 3. WIRE JUMPERS ON CIRCUIT BOARD ARE PART OF SIGNAL PATHS. THEY ARE NOT FOR OPTIONS
 4. PLACE DECALS (ITEM 30, 31 & 36) APPROX. AS SHOWN.
 5. POWER DIST. BOARD WITH 7 #14AWG WIRES AND BUS BAR IS THE YA VARIATION.
 6. PLACE DECAL (ITEM 34) COVERING BOARD ETCH APPROX. AS SHOWN.



QTY	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	1		ETCHED CIRCUIT BOARD	D-1A-5010864-0-0	1
5	5	J4, J6, J8, J10, J12	CONN, 6 PIN MATE-N-LOK (FEMALE)	1209350-06	2
1	1	J1	CONN, 8 PIN MATE-N-LOK (FEMALE)	1209340-00	3
5	5	J3, J5, J7, J9, J11	CONN, 15 PIN MATE-N-LOK (FEMALE)	1209350-15	4
1	1	J2	CONN, 12 PIN MATE-N-LOK (FEMALE)	1209350-12	5
4	4	P13 THRU P16	CONN, 8 PIN MATE-N-LOK (MALE)	1209340-01	6
31	24	(P13 THRU P16)	PIN, MATE-N-LOK	1209378-01	7
8	8	(J1)	PIN, MATE-N-LOK	1209379-01	8
117	117		PIN, MATE-N-LOK PC MOUNT	1209456-	9
1	1		SHIELD	C-MD-7412192-0-0	10
2	2		GROUND LUG	1000150	11
1	1		BRACKET, CONN MTG	D-MD-7411704-0-0	12
2	2		EYELET	9009000	13
2	2		FASTON TAB	9008219-0	14
7	7		CABLE TIE .12 WIDE	9007880	15
2	2		SCREW, PHHD TRUSS 6-32x.3125	9006021-03	16
2	2		WASHER, INT TOOTH #6	9006633	17
A/R/A/R			WIRE #14 AWG STRD (ORN)	9107370-33	18
A/R/A/R			WIRE #14 AWG STRD (BRN)	9107370-11	19
A/R/A/R			WIRE #14 AWG STRD (RED)	9107370-22	20
A/R/A/R			WIRE #14 AWG STRD (GRY)	9107370-88	21
A/R/A/R			WIRE #14 AWG STRD (BLK)	9107370-00	22
A/R/A/R			WIRE #14 AWG STRD (BLU)	9107370-66	23
A/R/A/R			WIRE #14 AWG STRD (VEL)	9107370-44	24
A/R/A/R			WIRE #14 AWG STRD (GRN)	9107370-55	25
A/R/A/R			WIRE #14 AWG STRD (VIO)	9107370-77	26
A/R/A/R			WIRE #14 AWG STRD (WHT)	9107370-99	27
A/R/REF			MATE-N-LOK FIXTURES	C-1A-9305937-0-0	28
2	2		FLAT WASHER #6	9006666	29
A/R/A/R		J3 THRU J12	DECAL, PWR CONN.	A-DC-7409873-01	30
A/R/A/R		J1	DECAL, PWR CONN.	A-DC-7409873-02	31
1	-		BAR, BUS, BATTERY BACKUP	1213497	32
A/R/A/R			WIRE #14 AWG GRN/YEL	9107777-54	33
1	1		TERMINAL, RING BLU	9007928	34
1	1		TERMINAL, RING YEL	9007926-01	35
A/R/A/R		P13 THRU P16	DECAL, PWR CONN.	A-DC-7409872-2	36
A/R/A/R		P13 THRU P16	DECAL, PWR BOARD	A-DC-7417991-0-0	37

IC TYPE	QND	+5V
IC PIN LOCATIONS		
QND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		

REV	DATE	BY	CHK	DESCRIPTION
1	30-SEP-77	J. MERCURI		REVISED
2	28-SEP-77	D. ZIMMERMAN		REVISED
3	24-SEP-77	R. KENNEDY		REVISED
4	3-NOV-77	B. WOOD		REVISED
5	3-NOV-77	G. POTTER		REVISED
6	2-AUG-78	G. POTTER		REVISED
7	2-AUG-78	G. POTTER		REVISED
8	2-AUG-78	G. POTTER		REVISED
9	2-AUG-78	G. POTTER		REVISED
10	2-AUG-78	G. POTTER		REVISED
11	2-AUG-78	G. POTTER		REVISED
12	2-AUG-78	G. POTTER		REVISED
13	2-AUG-78	G. POTTER		REVISED
14	2-AUG-78	G. POTTER		REVISED
15	2-AUG-78	G. POTTER		REVISED
16	2-AUG-78	G. POTTER		REVISED
17	2-AUG-78	G. POTTER		REVISED
18	2-AUG-78	G. POTTER		REVISED
19	2-AUG-78	G. POTTER		REVISED
20	2-AUG-78	G. POTTER		REVISED
21	2-AUG-78	G. POTTER		REVISED
22	2-AUG-78	G. POTTER		REVISED
23	2-AUG-78	G. POTTER		REVISED
24	2-AUG-78	G. POTTER		REVISED
25	2-AUG-78	G. POTTER		REVISED
26	2-AUG-78	G. POTTER		REVISED
27	2-AUG-78	G. POTTER		REVISED
28	2-AUG-78	G. POTTER		REVISED
29	2-AUG-78	G. POTTER		REVISED
30	2-AUG-78	G. POTTER		REVISED
31	2-AUG-78	G. POTTER		REVISED
32	2-AUG-78	G. POTTER		REVISED
33	2-AUG-78	G. POTTER		REVISED
34	2-AUG-78	G. POTTER		REVISED
35	2-AUG-78	G. POTTER		REVISED
36	2-AUG-78	G. POTTER		REVISED
37	2-AUG-78	G. POTTER		REVISED

FIRST USED ON OPTION MODEL
B111-K

ETCH BOARD REV. D

DEC NO. EIA NO. DEC NO. EIA NO.

SEMICONDUCTOR CONVERSION CHART

DRN: P. Beasley
DATE: 6/14/74
CHK: J. Kennedy
DATE: 7/7/74
ENG: J. Kennedy
DATE: 7/7/74
PROL ENG: J. Kennedy
DATE: 7/7/74
PROL ENG: J. Kennedy
DATE: 7/7/74
NEXT HIGHER ASSY
D-UA-B111-K-0

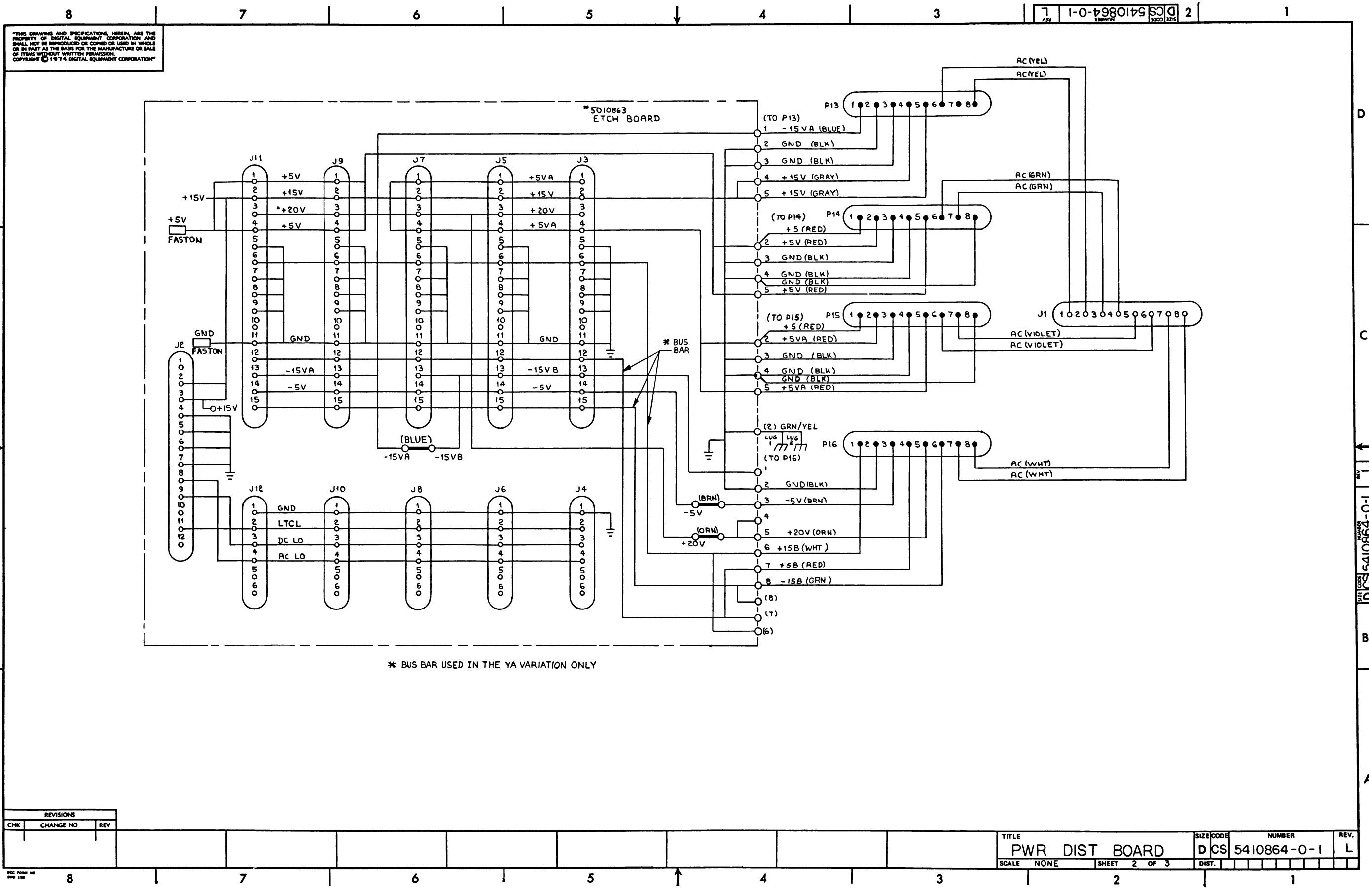
SCALE: NONE
SHEET: 1 OF 3

digital

POWER DISTRIBUTION BOARD

SIZE: CODE: NUMBER: REV: L

DCS 5410864-0-1



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REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
PWR DIST BOARD		D CS	5410864-0-1	L
SCALE NONE		SHEET 2 OF 3	DIST.	

8 7 6 5 4 3 2 1

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WIRE TABLE

ITEM NO	AWG	COLOR	FROM		TO		LENGTH	SIGNAL NAME
			CONNECTION	WITH	CONNECTION	WITH		
24	14	YEL	J1-1	8	P13-8	7	12.5"	AC/H745
24		YEL	J1-2		P13-6		12.5"	AC/H745
25		GRN	J1-3		P14-7		11"	AC/H744-1
25		GRN	J1-4		P14-6		11"	AC/H744-1
26		VIO	J1-5		P15-7		8.75"	AC/H744-2
26		VIO	J1-6		P15-6		8.75"	AC/H744-2
27		WHT	J1-7		P16-8		11.25"	AC/H754
27		WHT	J1-8	8	P16-7		11.25"	AC/H754
23		BLU	PDBP13-1	SOLDER	P13-1		5"	-15V
22		BLK	PDBP13-2		P13-2			GND
22		BLK	PDBP13-3		P13-3			GND
21		GRY	PDBP13-4		P13-4			+15V
21		GRY	PDBP13-5		P13-5			+15V
20		RED	PDBP14-2		P14-2			+5V
22		BLK	PDBP14-3		P14-3			GND
22		BLK	PDBP14-4		P14-4			GND
20		RED	PDBP14-5		P14-5			+5V
20		RED	PDBP15-2		P15-2			+5V
22		BLK	PDBP15-3		P15-3			GND
22		BLK	PDBP15-4		P15-4			GND
20		RED	PDBP15-5		P15-5			+5V
22		BLK	PDBP16-2		P16-2			GND
19		BRN	PDBP16-3		P16-3			-5V
18		ORN	PDBP16-5		P16-5	7	5"	+20V
23		BLU	PDBP15A		PDB-15B	SOLDER	1.75	-15V
18		ORN	PDBP16-5		PDB+20V		5"	+20V
19		BRN	PDBP16-3	SOLDER	PDB-5V		2"	-5V
33		GRN/YEL	LUG 1	35	PDBP16-2	SOLDER	11"	SAFETY GND
33					LUG 2	34	15"	SAFETY GND
20		RED	PDBP16-7	SOLDER	P16-4	7	5.5"	+5B
20		RED	PDBP15-1		P15-1		5"	+5V
20		RED	PDBP14-1		P14-1		5"	+5V
22		BLK	PDBP15-4		P15-8		5.5"	GND
22		BLK	PDBP14-4		P14-8			GND
27		WHT	PDBP16-6		P16-1			+15B
25	14	GRN	PDBP16-8	SOLDER	P16-6	7	5.5"	-15B

SEE NOTE 1

YA VARIATION ONLY.

BUS BAR CONNECTIONS FOR YA VARIATION

LEVEL	CONNECTION	VOLTAGE
LEVEL A	PDBP16-6 J11,J9,J7,J5,J3 ALL PIN#6	+15V.B
LEVEL B	PDBP16-7 J11,J9,J7,J5,J3 ALL PIN#12	+5V
LEVEL C	PDBP16-8 J11,J9,J7,J5,J3 ALL PIN#15	-15V.B

NOTES:

1. CS REV. K AND EARLIER PWR DISTRIBUTION BOARDS HAD THE GREEN AND WHITE WIRES REVERSED IN COLOR ONLY. THE POINT-TO-POINT CONNECTIONS REMAIN THE SAME.

REVISIONS

CHK	CHANGE NO	REV

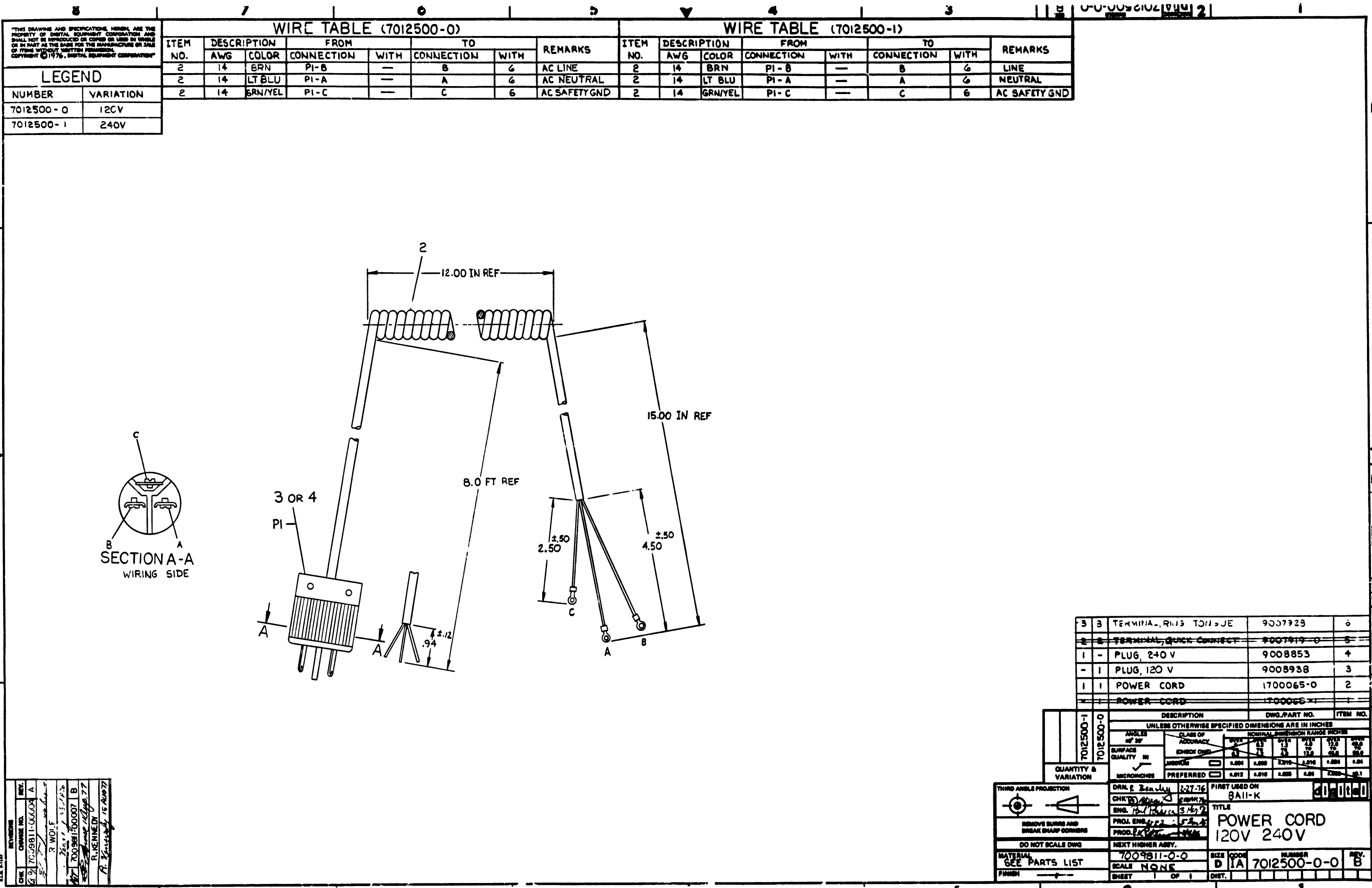
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SCALE: NONE

SHEET: 3 OF 3

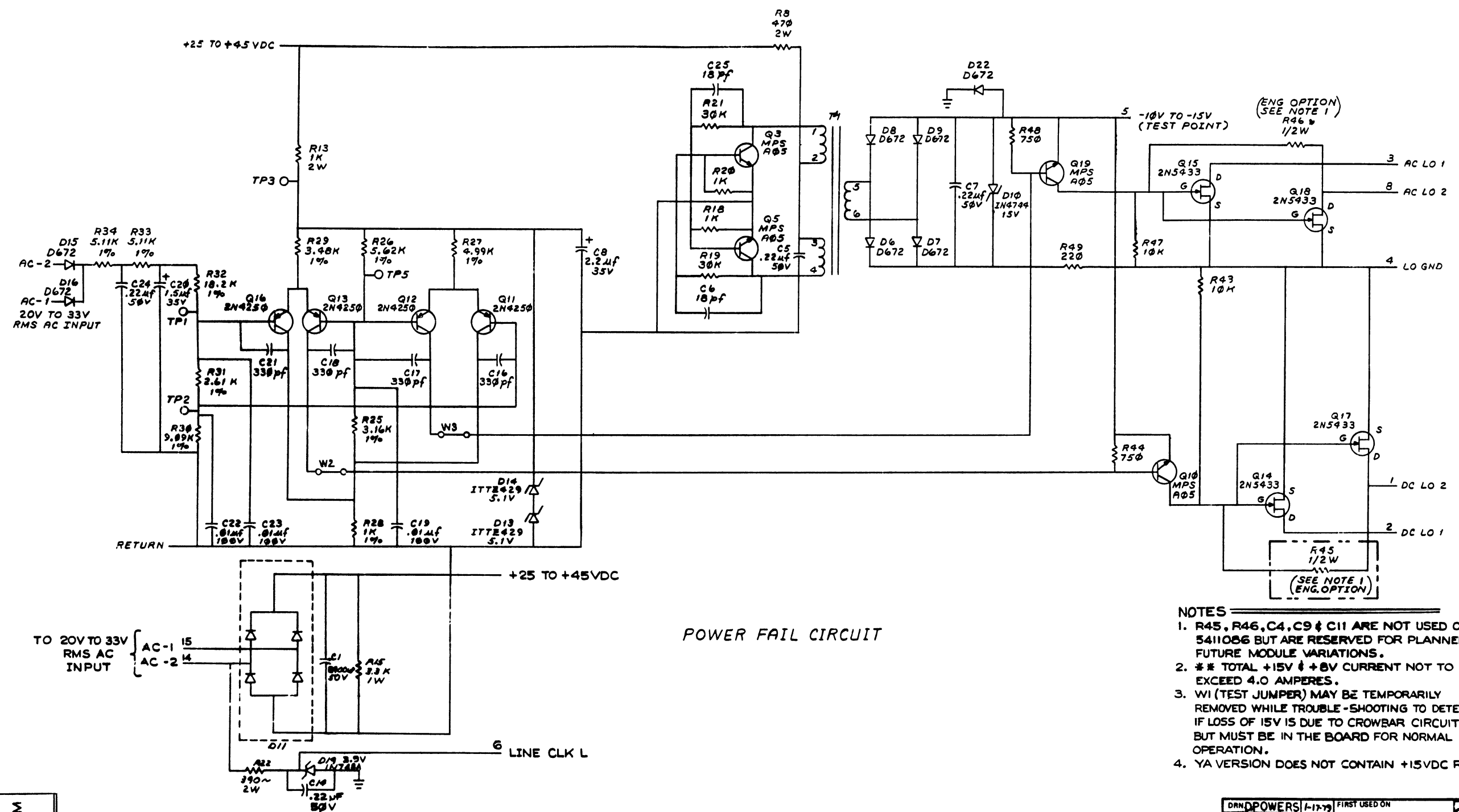
NUMBER: DCS 5410864-0-1

REV: L



REV.	DATE	BY	CHK
1	2-27-76	R. B. J.	J. B. J.
2	3-1-76	J. B. J.	J. B. J.
3	3-1-76	J. B. J.	J. B. J.
4	3-1-76	J. B. J.	J. B. J.
5	3-1-76	J. B. J.	J. B. J.
6	3-1-76	J. B. J.	J. B. J.
7	3-1-76	J. B. J.	J. B. J.
8	3-1-76	J. B. J.	J. B. J.
9	3-1-76	J. B. J.	J. B. J.
10	3-1-76	J. B. J.	J. B. J.

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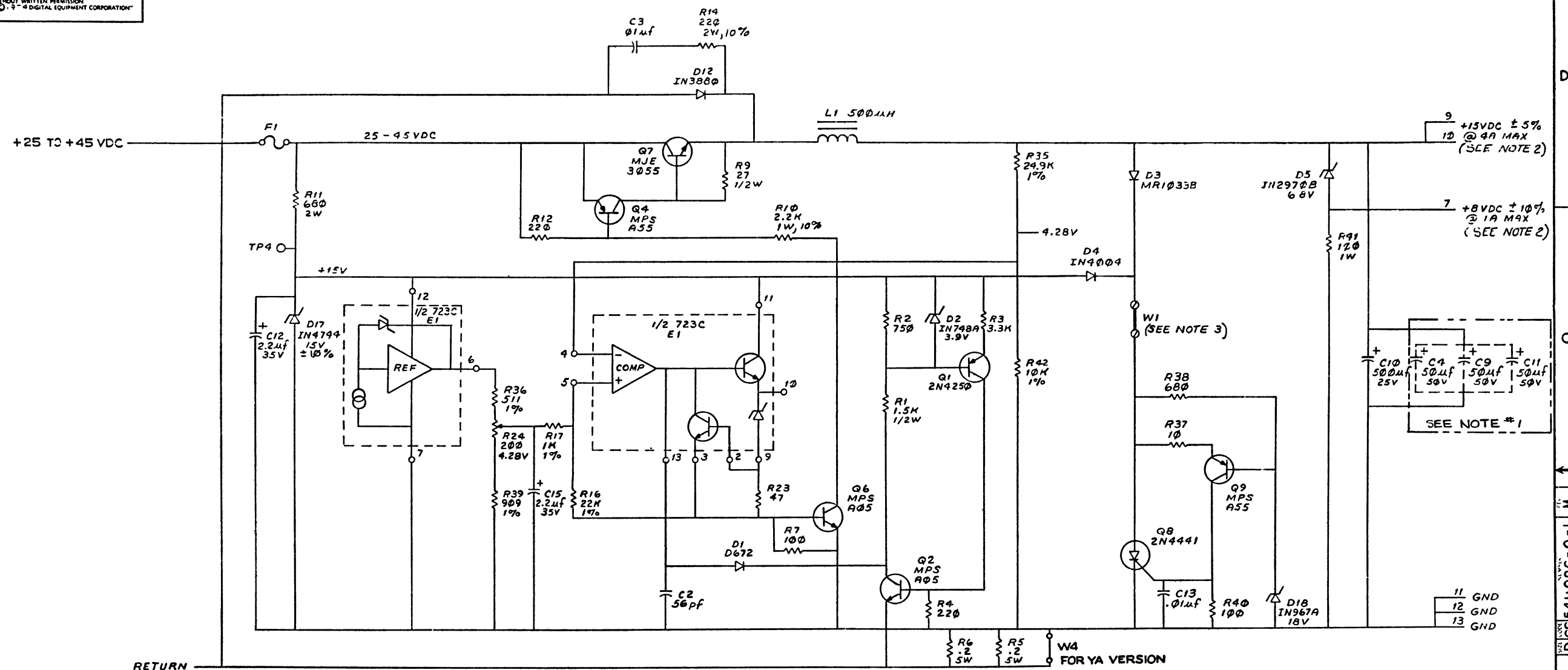
POWER FAIL CIRCUIT

- NOTES**
1. R45, R46, C4, C9 & C11 ARE NOT USED ON BASIC 5411086 BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS.
 2. ** TOTAL +15V & +5V CURRENT NOT TO EXCEED 4.0 AMPERES.
 3. W1 (TEST JUMPER) MAY BE TEMPORARILY REMOVED WHILE TROUBLE-SHOOTING TO DETERMINE IF LOSS OF 15V IS DUE TO CROWBAR CIRCUITRY. BUT MUST BE IN THE BOARD FOR NORMAL OPERATION.
 4. YA VERSION DOES NOT CONTAIN +15VDC REG.

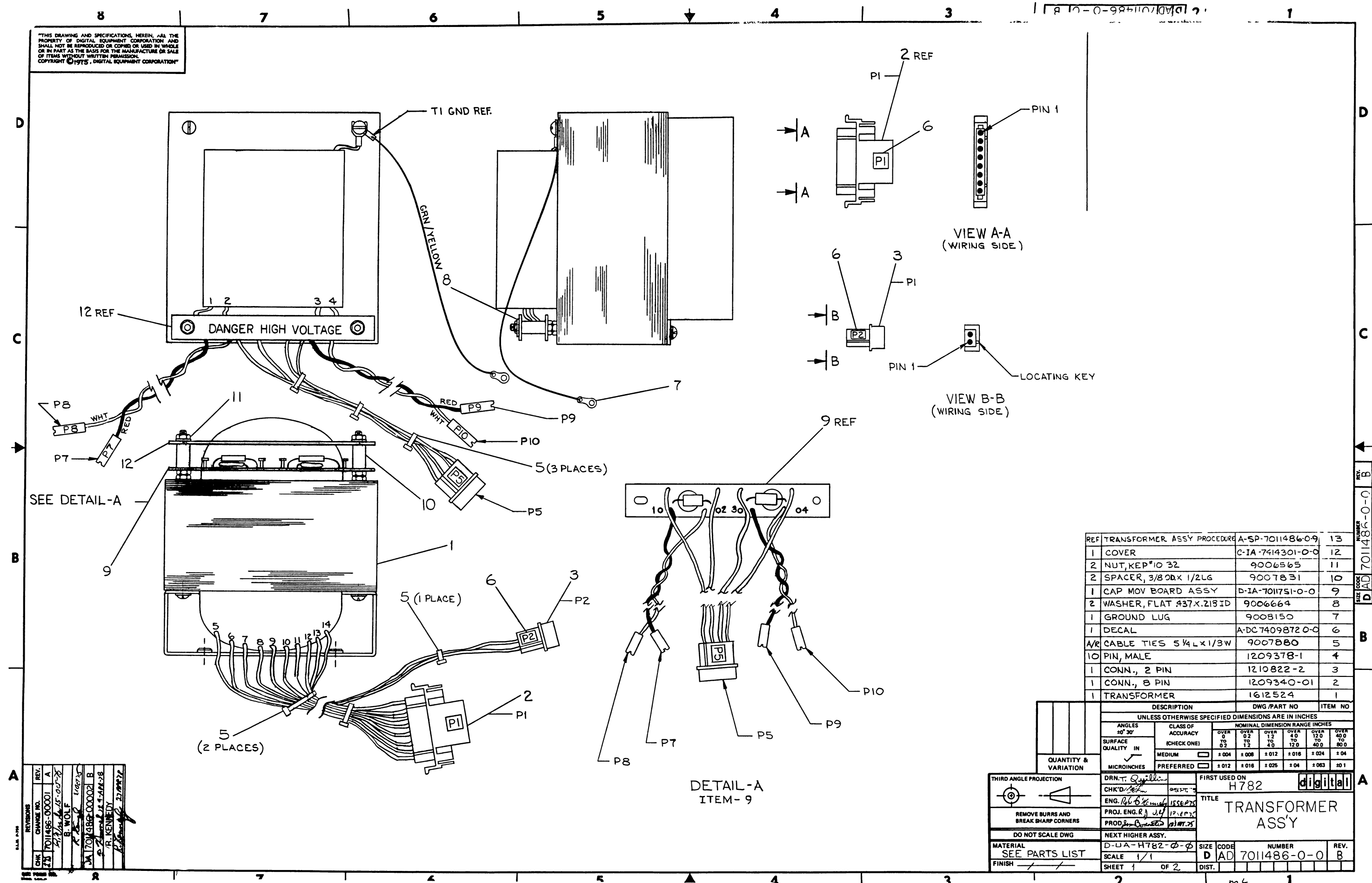
REV.	REV.	REV.
M	M	M
ML008	CARTER	R. KENNEDY
CHK	G. BARR	G. BARR

DRND POWERS	1-17-79	FIRST USED ON	40100-0
CHK'D	2-15-79	TITLE	POWER LINE
ENG. G. BARR	2-6-79	NUMBER	MONITOR 15V REG
PROJ. ENG. G. BARR	2-6-79	SCALE	NONE
PROD. G. BARR	2-6-79	SHEET	1 OF 2
NEXT HIGHER ASSY.		SIZE	CODE
B-00-5411086-0		NUMBER	REV.
SCALE	NONE	DIST	M

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REF	TRANSFORMER ASSY PROCEDURE	A-5P-7011486-0-9	13
1	COVER	C-1A-79414301-0-0	12
2	NUT, KEP*10 32	9006565	11
2	SPACER, 3/80Dx 1/2LG	9007831	10
1	CAP MOV BOARD ASSY	D-1A-7011751-0-0	9
2	WASHER, FLAT .437X.218ID	9006664	8
1	GROUND LUG	9008150	7
1	DECAL	A-DC7409872-0-0	6
A/R	CABLE TIES 5 1/4 L x 1/3 W	9007880	5
10	PIN, MALE	1209378-1	4
1	CONN., 2 PIN	1210822-2	3
1	CONN., 8 PIN	1209340-01	2
1	TRANSFORMER	1612524	1

DESCRIPTION		DWG./PART NO.				ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES ± 30°		NOMINAL DIMENSION RANGE INCHES					
SURFACE QUALITY IN	CLASS OF ACCURACY (CHECK ONE)	OVER 0 0.2	OVER 0.2 1.2	OVER 1.2 4.0	OVER 4.0 12.0	OVER 12.0 40.0	OVER 40.0 80.0
	MEDIUM ☐	± .004	± .008	± .012	± .016	± .024	± .04
	PREFERRED ☒	± .012	± .016	± .025	± .04	± .063	± .1
MICROINCHES							

THIRD ANGLE PROJECTION		DRN. T. <i>Quill</i>		FIRST USED ON		H782		digital	
		CHK'D <i>John</i>		9/12/75		TITLE		TRANSFORMER	
REMOVE BURRS AND BREAK SHARP CORNERS		ENG. <i>R.B. Kennedy</i>		15SEP75		ASS'Y			
		PROJ. ENG. <i>R.J. Jett</i>		12-1-75					
		PROD. <i>Don Givens</i>		12-07-75					
DO NOT SCALE DWG		NEXT HIGHER ASSY.							
MATERIAL		D-4A-H782-0-0		SIZE		CODE		NUMBER	
SEE PARTS LIST		SCALE 1/1		DIST		AD		7011486-0-0	
FINISH		SHEET 1 OF 2		D				REV. B	

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FIELD MAINTENANCE PRINT SET

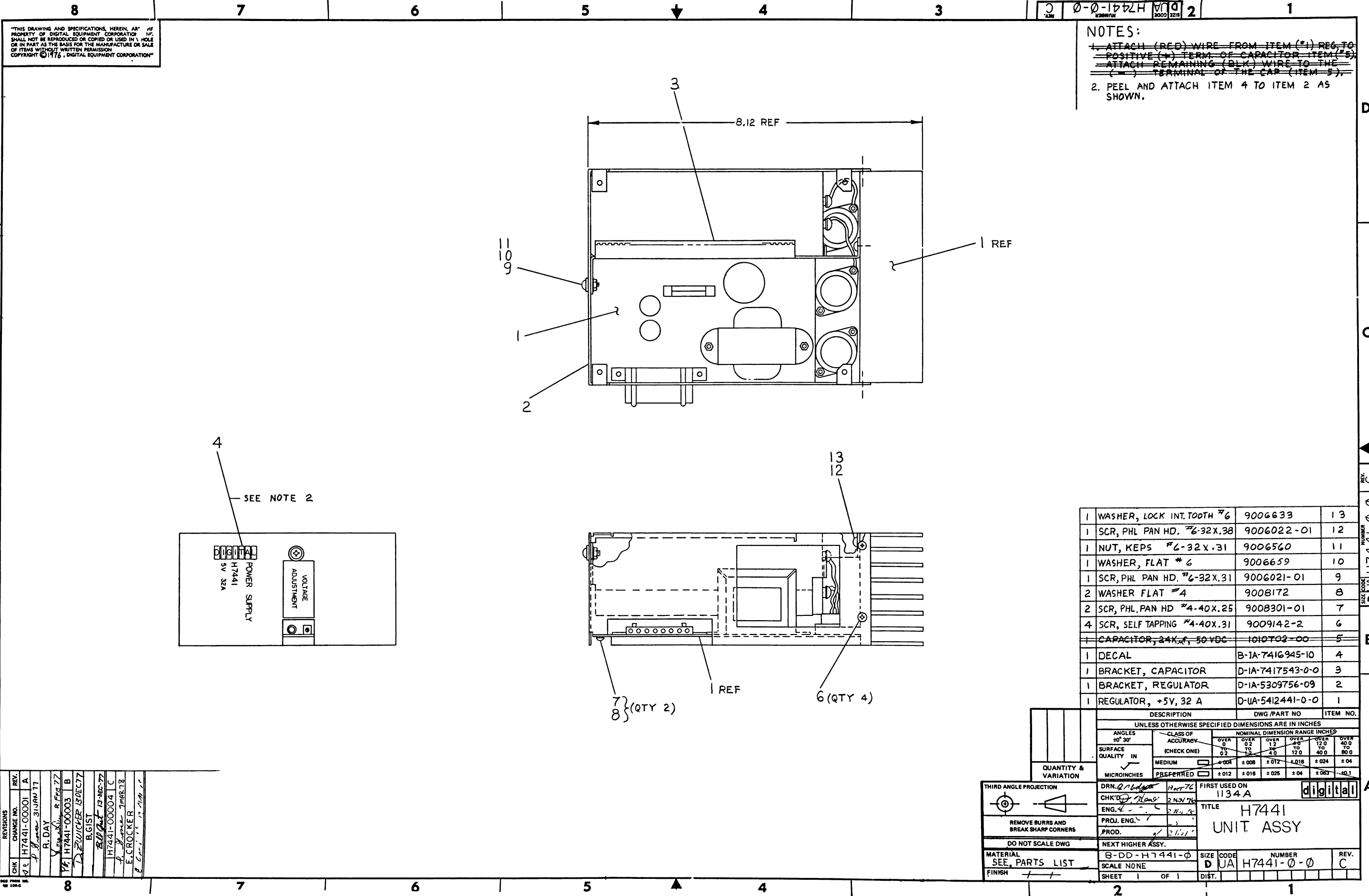
TABLE OF CONTENTS

[illegible]

PRINT SET ORDER NO.
MP00271

EN 01124 16 N676 (327)

BLANK



NOTES:
1. ATTACH (RED) WIRE FROM ITEM (#1) REF. TO POSITIVE (+) TERM. OF CAPACITOR ITEM (#5).
2. ATTACH REMAINING (BLK) WIRE TO THE (-) TERMINAL OF THE CAP (ITEM 5).
3. PEEL AND ATTACH ITEM 4 TO ITEM 2 AS SHOWN.

1	WASHER, LOCK INT. TOOTH #6	9006633	13
1	SCR, PHL PAN HD. #6-32X.38	9006022-01	12
1	NUT, KEPS #6-32X.31	9006560	11
1	WASHER, FLAT #6	9006659	10
1	SCR, PHL PAN HD. #6-32X.31	9006021-01	9
2	WASHER FLAT #4	9008172	8
2	SCR, PHL PAN HD #4-40X.25	9008301-01	7
4	SCR, SELF TAPPING #4-40X.31	9009142-2	6
1	CAPACITOR, 24K, 50 VDC	1010702-00	5
1	DECAL	B-1A-7416945-10	4
1	BRACKET, CAPACITOR	D-1A-7417543-0-0	3
1	BRACKET, REGULATOR	D-1A-5309756-09	2
1	REGULATOR, +5V, 32 A	D-1A-5412441-0-0	1

DESCRIPTION		DWG / PART NO	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN	MEDIUM	OVER 0 TO 12	OVER 12 TO 40
MICROINCHES	PREFERRED	±0.004 ±0.008 ±0.012 ±0.016 ±0.024 ±0.04	±0.004 ±0.008 ±0.012 ±0.016 ±0.024 ±0.04
THIRD ANGLE PROJECTION		DRN. 2/1/76	FIRST USED ON 1134 A
REMOVE BURRS AND BREAK SHARP CORNERS		CHK'D. 2/1/76	TITLE H7441 UNIT ASSY
DO NOT SCALE DWG		PROJ. ENG. 2/1/76	PROD. 2/1/76
MATERIAL SEE PARTS LIST		NEXT HIGHER ASSY.	
FINISH		B-DD-H7441-0	
		SCALE NONE	
		SHEET 1 OF 1	
		SIZE CODE DUA	
		NUMBER H7441-0-0	
		REV. C	

REV.	CHANGE NO.	DATE	BY	CHK'D.	APP'D.
A	1	3/1/76	R. DAY		
B	1	3/1/76	R. DAY		
C	1	3/1/76	R. DAY		
D	1	3/1/76	R. DAY		
E	1	3/1/76	R. DAY		
F	1	3/1/76	R. DAY		
G	1	3/1/76	R. DAY		
H	1	3/1/76	R. DAY		
I	1	3/1/76	R. DAY		
J	1	3/1/76	R. DAY		
K	1	3/1/76	R. DAY		
L	1	3/1/76	R. DAY		
M	1	3/1/76	R. DAY		
N	1	3/1/76	R. DAY		
O	1	3/1/76	R. DAY		
P	1	3/1/76	R. DAY		
Q	1	3/1/76	R. DAY		
R	1	3/1/76	R. DAY		
S	1	3/1/76	R. DAY		
T	1	3/1/76	R. DAY		
U	1	3/1/76	R. DAY		
V	1	3/1/76	R. DAY		
W	1	3/1/76	R. DAY		
X	1	3/1/76	R. DAY		
Y	1	3/1/76	R. DAY		
Z	1	3/1/76	R. DAY		

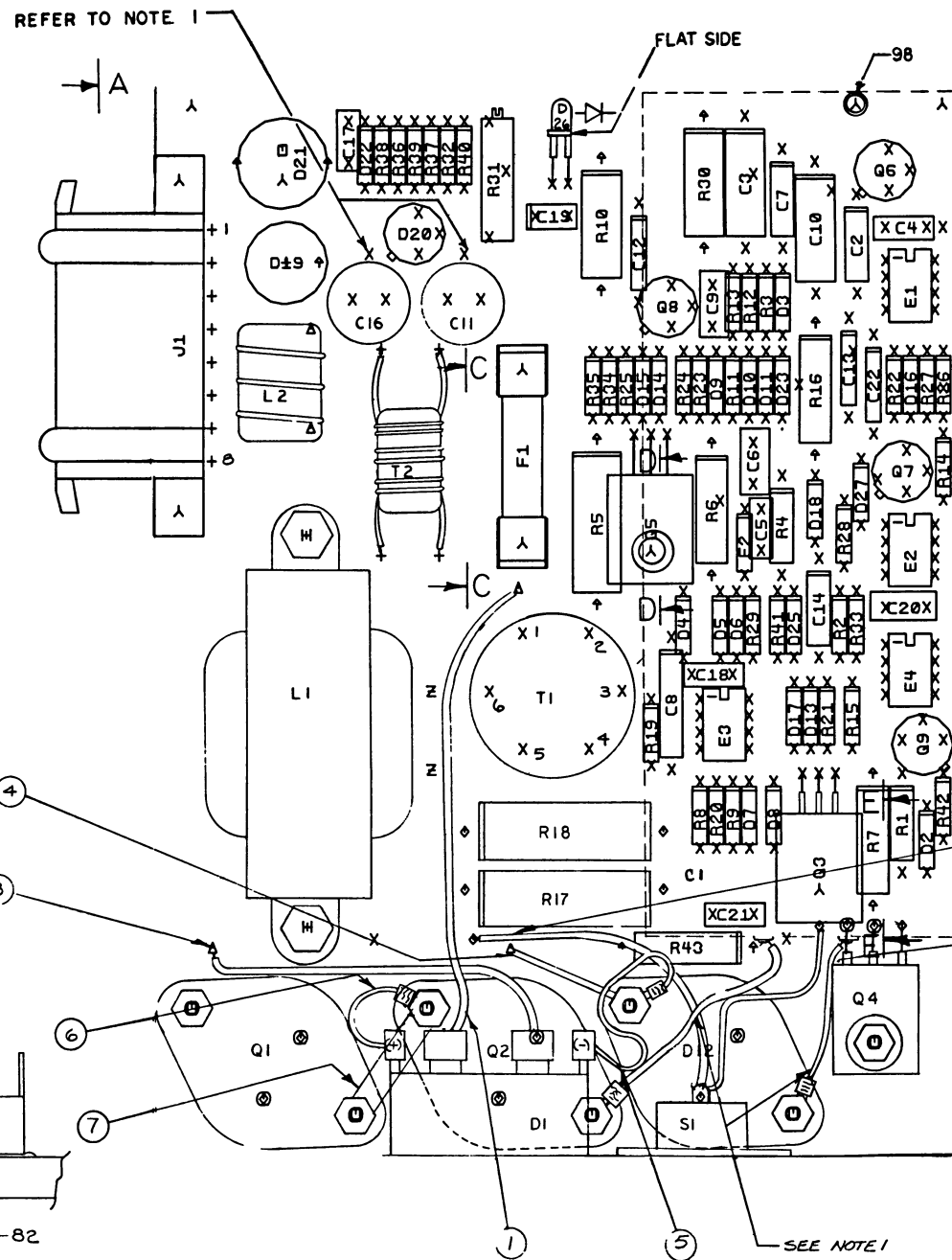
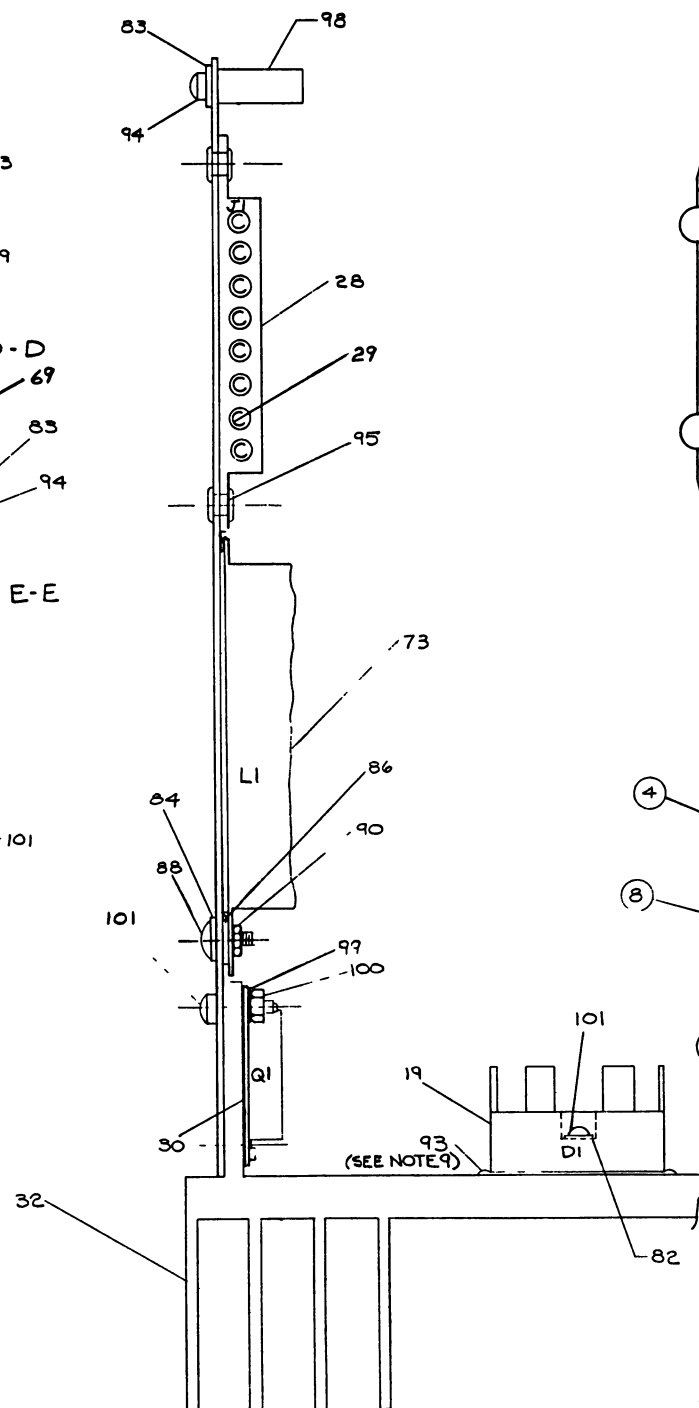
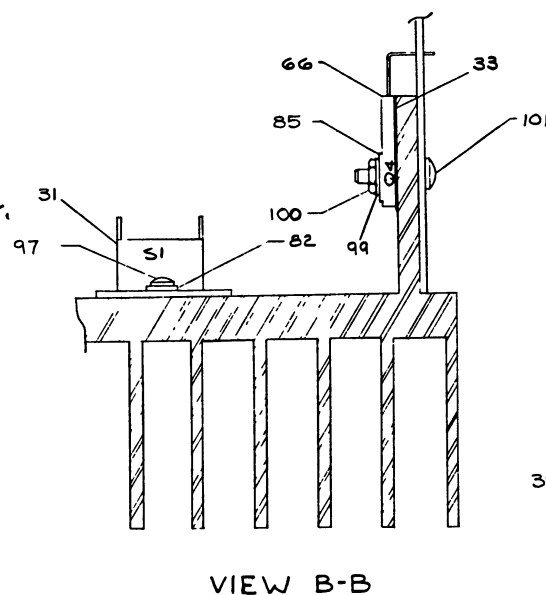
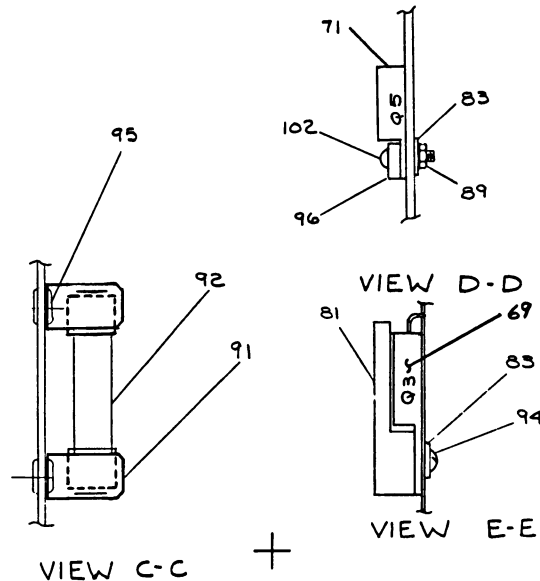
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COMPONENT SIDE VIEW

WIRE & BUS STRAP RUNS

NO.	FROM	TO	WIRE OR BUS LENGTH
①	FEEDTHRU AT F1	TERMINAL D1	#14 AWG 4" SEE NOTE 3
②	S1	FEEDTHRU SHOWN	#18 AWG 3"
③	S1	FEEDTHRU SHOWN	#18 AWG 2.5"
④	D12	FEEDTHRU SHOWN	DEC PT. #1214074-05 SEE NOTE 4
⑤	TERMINAL D1	D12	#14 AWG 3" SEE NOTE 5
⑥	TERMINAL D1	Q2	#14 AWG 2" SEE NOTE 6
⑦	Q2	Q1	DEC PT. #1214074-04 SEE NOTE 7
⑧	TERMINAL D1	FEEDTHRU SHOWN	#14 AWG 2.75" SEE NOTE 2

NOTES: 1. MOUNT WIRES PER 1A DRAWING NO. 1A 7013274. RED WIRE TO CASE Q2 AND POSITIVE TERMINAL C1 & BLACK WIRE TO CASE D12 AND NEGATIVE TERMINAL C1.
2. WIRE RUN ⑥ IS SOLDERED AT D1.
3. WIRE RUN ① IS SOLDERED AT D1.
4. STRAP ④ (ITEM #26) IS SOLDERED AT FEEDTHROUGH SHOWN AND MOUNTED UNDER RING LUG OF D12.
5. WIRE RUN ⑤ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF D12.
6. WIRE RUN ⑥ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF Q2.
7. BUS STRAP ⑦ (ITEM #25) IS MOUNTED UNDER RING LUG OF Q2 AND ON CASE OF Q1.
8. TORQUE HARDWARE, ON Q1, Q2, Q4 AND D12 TO 8 INCH-LBS. FROM NUT SIDE ONLY. TORQUE OTHER HARDWARE TO DEC STD VALUES.
9. APPLY THERMAL COMPOUND TO D1 (ITEM 19) ONLY.



NOTES:

1. INDICATED DRILL POINTS AT C11 AND C16 SHOULD NOT BE USED FOR DRILL ALIGNMENT DURING MANUFACTURE. THESE OVERSIZED PADS WILL NOT CENTER WITH DRILL BORING.

CHANGE NO	REV	DATE	BY	CHKD	APPD
1	1	11-17-77	W. DAY	W. DAY	W. DAY
2	1	11-17-77	W. DAY	W. DAY	W. DAY
3	1	11-17-77	W. DAY	W. DAY	W. DAY
4	1	11-17-77	W. DAY	W. DAY	W. DAY
5	1	11-17-77	W. DAY	W. DAY	W. DAY
6	1	11-17-77	W. DAY	W. DAY	W. DAY
7	1	11-17-77	W. DAY	W. DAY	W. DAY
8	1	11-17-77	W. DAY	W. DAY	W. DAY
9	1	11-17-77	W. DAY	W. DAY	W. DAY
10	1	11-17-77	W. DAY	W. DAY	W. DAY

ETCH REV. B	P.C. DESIGN DATA BASE REV. B-P4
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SIGNATURES	DATE	digital
DRN. Buckle H. H.	5-20-77	
CHK'D. W. J. H.	11-17-77	TITLE +5V, 32 AMP REGULATOR
ENC. T. H. J.	1-11-77	
PROJ. ENG. B. J. G.	1-11-77	SCALE 2:1
PROD. T. H. J.	1-11-77	
SHT. 1 OF 3		SIZE CODE NUMBER
NEXT HIGHER ASSY. B-DD-5412441-0		

1 MS#

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51977

D

C

B

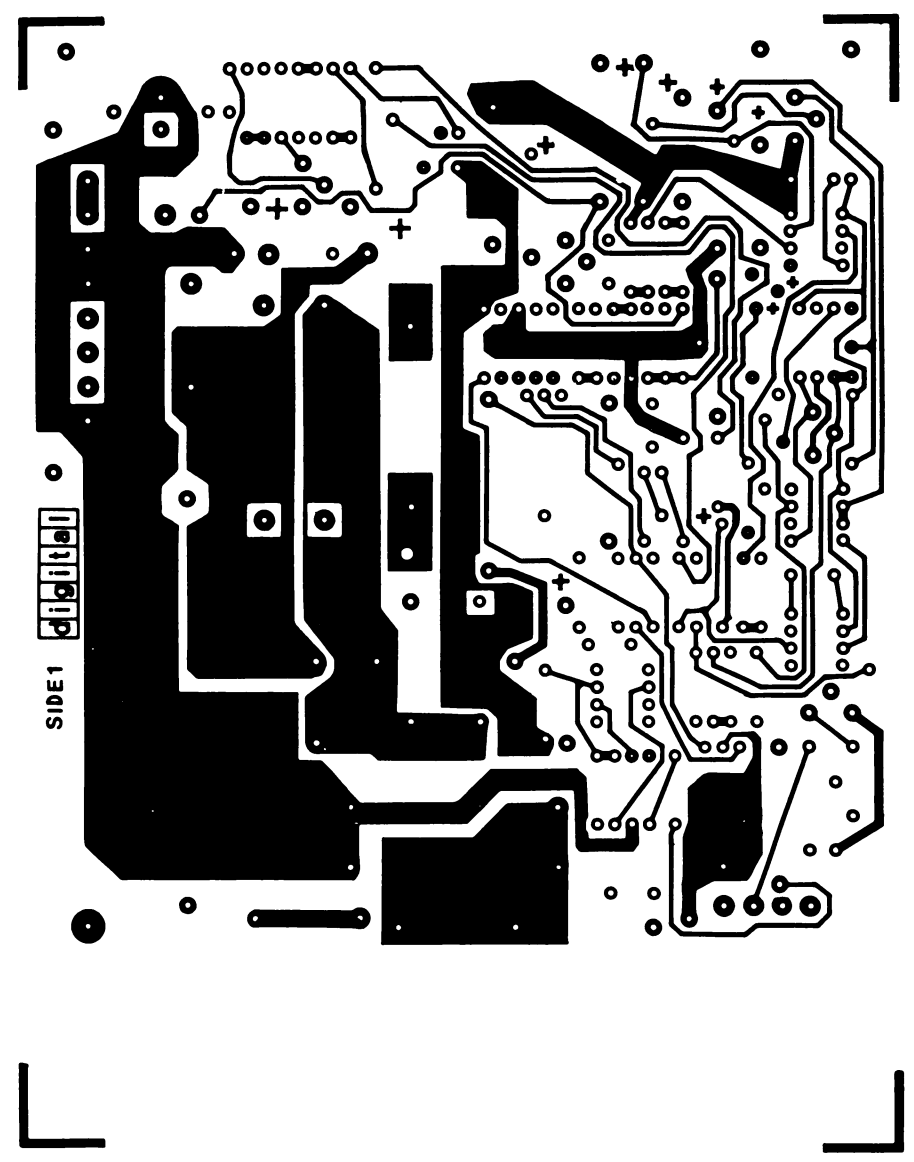
A

D

C

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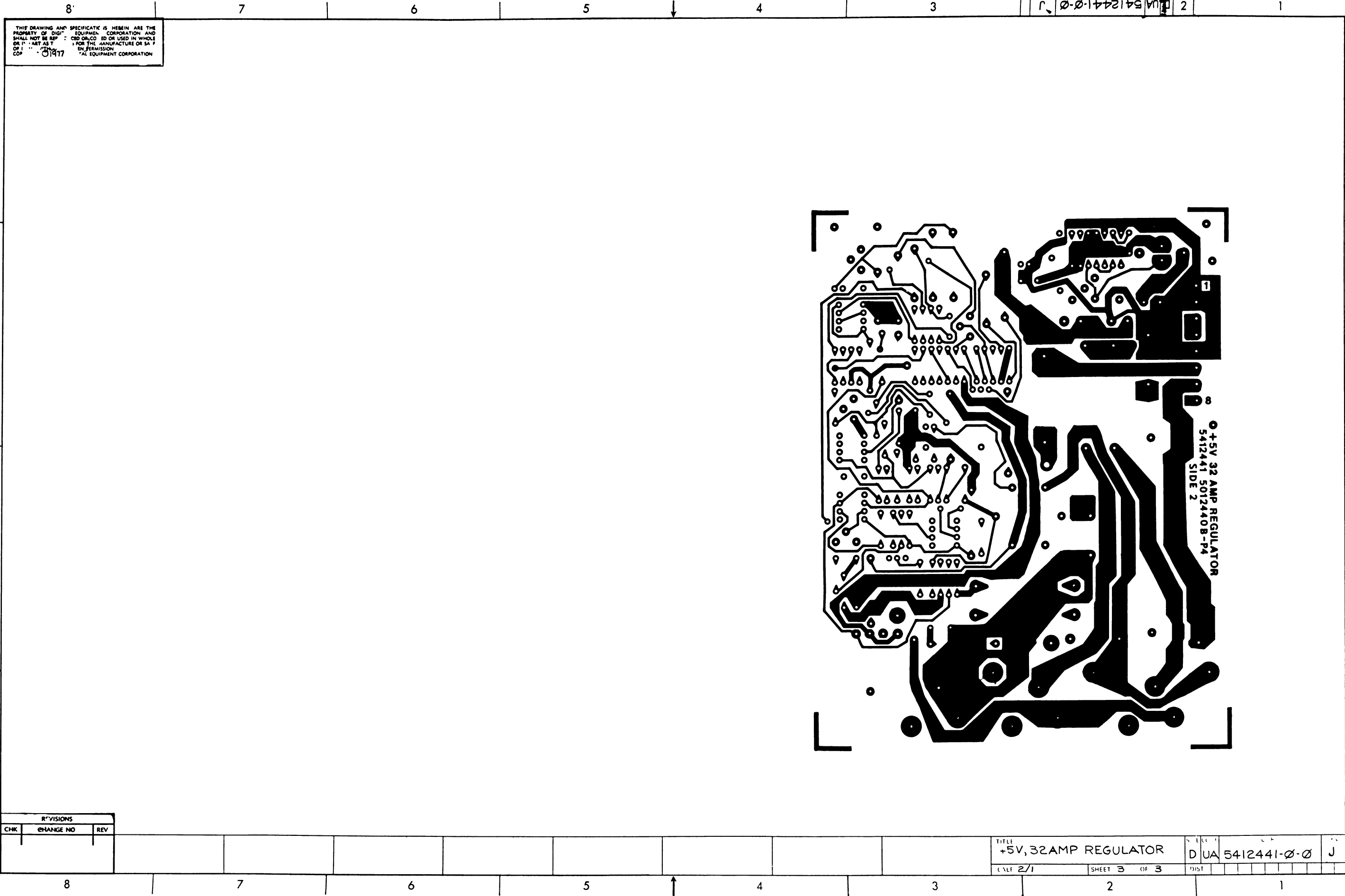


REVISIONS		
CHK	CHANGE NO.	REV

+5V, 32AMP, REGULATOR

2/1 2 3

D UA 5412441-0-0 J



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REVISIONS		
CHK	CHANGE NO	REV

TITLE		DUA 5412441-0-0		J
+5V, 32AMP REGULATOR		DUA 5412441-0-0		J
SCALE	2/1	SHEET	3 OF 3	DIST

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5012440-0-0	5012440-00	5412441	1	
2	2		1000009-00	33.0 MMF 100V 5%200PPM DM15S (10-00	1	C20
3	3		1000021-00	220.0 MMF 100V 5%200PPM DM15S (10-00	1	C9
4	4		1001610-01	.01 MFD 100V DR 50V 25U DISC/800PF MIN	5	C4,C5,C17,C18,C21
5	5		1002627-00	2.2MFD 20V 10% 150D S.TA (10	2	C2,C7
6	6		1004813-00	10 MFD 20V 10% 150D S.TA (10-00	1	C8
7	7		1010279-00	.47 MFD 25V 20% 2C023 CER.	1	C19
8	8		1010646-00	.015 MFD 50V 2% M.POLYCARB	2	C3,C10
9	9		1010702-00	24,000 MFD 50V GX 36D AL EL	1	C1
10	10		1012607-00	560 MFD 20V HX 672D AL EL	1	C11
11	11		1012607-01	1200 MFD 6.3V HX 672D AL EL	1	C16
12	12		1009964-00	.68 MFD 35V 10% 150D S.TA	1	C12
13	13		1001776-00	1 MFD 35V 10% 150D S.TA (10-00	3	C13,C14,C22
14	14		1000024-00	470.0 MMF 100V 5%200PPM DM15S (10-00	1	C6
15	15		1105508-00	1N 823 VZ= 6.2 5% .40W Y	1	D18
16	16		1102808-00	1N 752A VZ= 5.6 5% .40W P	1	D22
17	17		1103341-00	MR1033B PIV=300 I= 3A Z44 SM	1	D19
18	18		1105275-00	D 672 TR= 15NS FIV= 60V SP	15	D3-D6,D9-D11,D13-D17,D23,D25,
					CONT	D27
19	19		1110051-00	DM 16 ASSY@200V & 25A #990-3	1	D1
20	20		1110324-00	LED 1MCD@10MA #MV5054-1#HP4882	1	D26
21	21		1110836-00	1N 759A VZ= 12.0 5% .40W P	1	D2
22	22		1110968-00	2N 5062 SCR@100V I=.8A T092	1	D20
23	23		1112595-01	A114B PIV=200 I= 1A	2	D7,D8
24	24		1113496-00	UES602R PIV=100 I=30A T03	1	D12
25	25		1214074-04	STRAP,THERMAL 2 HOLE	1	
26	26		1214074-05	STRAP,THERMAL LUG .815	1	
27	27		1209070-00	FUSE, SUB-MINI, 5.000A, 125V, RADIAL LEAD	1	F2
28	28		1209340-00	MATE-N-LOK 8PIN,HOUSING,SKT	1	J1
29	29		1209456-01	MATE-N-LOK SKT PCB TAB LOOSE	8	

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK	ECO NO	REV			MADE BY:	DATE:	TITLE			
SC	00008	J	00		D.SIREEN	10-MAR-78	PARTS LIST			
					F.GAROFALO	10-MAR-78	+5V 32 AMP REGULATOR			
					R.DAY	10-MAR-78	SIZE	CODE	DOCUMENT NUMBER	REV
					R.B.KING	10-MAR-78	K	PL	5412441-0-0	J
					R.DAY	10-MAR-78	ASSY.NO.: D-UA-5412441-0-0			EDIT# 6

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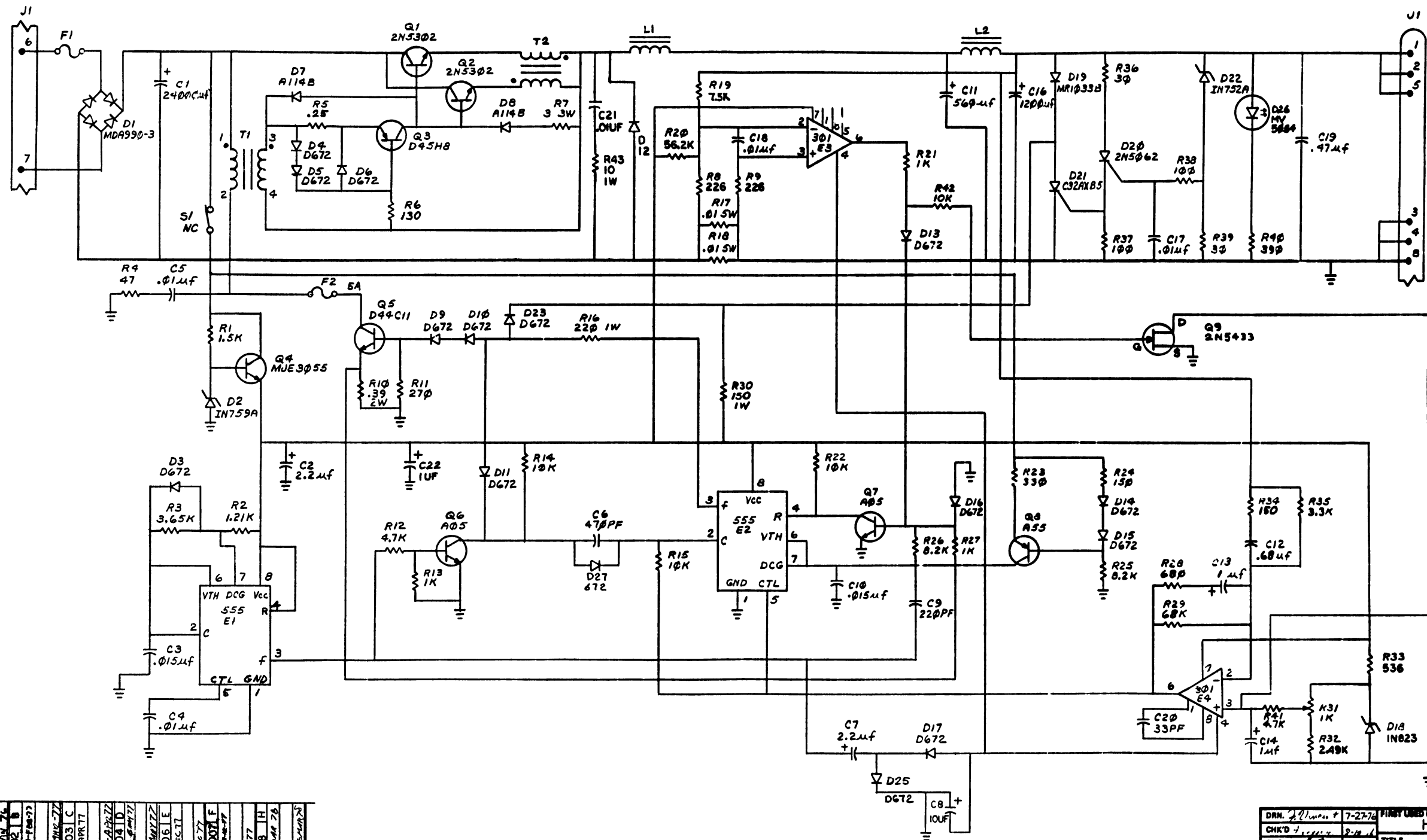
LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
30	30		1213071-02	INSULATOR,RUBBER SILICONE SM	3	
31	31		1212787-00	THERMOSTAT,00212,C0182,NC	1	51
32	32		1210737-02	HEAT SINK,REGULATOR	1	
33	33		1213071-06	INSULATOR,RUBBER SILICONE	1	
34	34		1312626-00	2.49 K 1/4W 1% RN55D-F 100PPM (13-00	1	R32
35	35		1300229-00	100 1/4W 5% CC (13-00	2	R37,R38
36	36		1300250-00	150 1/4W 5% CC (13-00	2	R24,R34
37	37		1305322-00	7.5 K 1/4W 1% RN55D-F 100PPM (13-00	1	R19
38	38		1300295-00	330 1/4W 5% CC (13-00	1	R23
39	39		1301424-00	680 1/4W 5% CC (13-00	1	R28
40	40		1301327-00	68 K 1/4W 5% CC (13-00	1	R29
41	41		1300439-00	3.3 K 1/4W 5% CC (13-00	1	R35
42	42		1310219-00	.25 3W 1% WW (13-00	1	R5
43	43		1300248-00	130 1W 5% CC (13-00	1	R6
44	44		1302644-00	226 1/4W 1% RN55D-F 100PPM (13-00	2	R8,R9
45	45		1300277-00	220 1W 10% CC (13-00	1	R16
46	46		1300309-00	390 1/4W 5% CC (13-00	1	R40
47	47		1312922-00	536 1/4W 1% RN55D-F 100PPM (13-00	1	R33
48	48		1300365-00	1 K 1/4W 5% CC (13-00	3	R13,R21,R27
49	49		1300394-00	1.5 K 1/2W 5% CC (13-00	1	R1
50	50		1300447-00	4.7 K 1/4W 5% CC (13-00	2	R12,R41
51	51		1300479-00	10 K 1/4W 5% CC (13-00	4	R14,R15,R22,R42
52	52		1301695-00	47 1/2W 5% CC (13-00	1	R4
53	53		1301972-00	270 1/4W 5% CC (13-00	1	R11
54	54		1312747-00	56.2 K 1/4W 1% RN55D-F 100PPM (13-00	1	R20
55	55		1302751-00	30 1/4W 5% CC (13-00	2	R36,R39
56	56		1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM (13-00	1	R2
57	57		1303179-00	8.2 K 1/4W 5% CC (13-00	2	R25,R26
58	58		1305337-00	3.65 K 1/4W 1% RN55D-F 100PPM (13-00	1	R3
59	59		1309143-07	1 K 3/4W10% POT 100PPM	1	R31
60	60		1310868-00	.39 2W 5% WW (13-00	1	R10
61	61		1313712-00	.01 5W 3% WW (13-00	2	R17,R18
62	62		1312682-00	3 3W 5% (13-00	1	R7
63	63		1300256-00	150 1W 10% CC (13-00	1	R30
64	64		1300171-00	10 1W 5% CC (13-00	1	R43
65	65		1510196-00	2N 5302/HSNPN 200WC SI 60 40 M	2	Q1,Q2
66	66		1510555-00	MJE3055 NPN 90WC SI 60 20 Y	1	Q4
67	67		1510705-00	XA 05 NPN 500MW SI 60 50 F	2	Q6,Q7
68	68		1510706-00	XA 55 PNP 500MW SI 60 50 F	1	Q8
69	69		1510708-00	D 45H8 PNP 50WT SI 60 60 Y	1	Q3
70	70		1510928-00	C32AX135 SCR0100V I=25A	1	D21
71	71		1512790-00	D 44C11 NFN 30W SI 80 40	1	Q5
72	72		1511686-00	DEC5433 FET N 350MW 10 25 1A 20U	1	Q9
73	73		1612584-00	50 UH 30A	1	L1
74	74		1612592-00	PULSE XFMR,RATIO 4:1	1	T1
75	75		1613713-00	CHOKER, 5 UH 32A	1	L2
76	76		1613714-00	2 UH 20A	1	T2
77	77		1910282-00	301AN OP AMP	2	E3,E4

! DIGITAL EQUIPMENT CORPORATION !	! TITLE	! PARTS LIST	! SIZE !	! CODE !	! DOCUMENT NUMBER	! REV !
! MAYNARD, MASSACHUSETTS !	! +5V 32 AMP REGULATOR		! K !	! PL !	! 5412441-0-0	! J !

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
78	78		1911944-00	555CN TIMER,FUNCT. BLOCK	2	E1,E2
79	79		7013274-00	JUMPER CAP TRAWS	1	
80	80		7013274-01	JUMPER CAP TRAWS	1	
81	81		7414765-00	HEATSINK	1	
82	82		9006633-00	WASHER,LOCK,INT,.2800D X .146ID X .018 THK	3	
83	83		9008172-00	WASHER, FLAT,SS .250 OD X .125 ID X .022 T	3	
84	84		9006660-00	WASHER, FLAT, .375 O.D. X .187 I.D. X .036	2	
85	85		9006653-00	WASHER, FLAT, .375 O.D. X .156 I.D. X .036	1	
86	86		9008082-00	WASHER, FLAT, FIBER OD. 1/2	2	
87	87		9007927-00	TERM RING 1POS INSULATED,16-14AWG,ROLL	2	
88	88		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8 SS/PAS	2	
89	89		9006557-00	NUT,KEP , 4-40X 1/4 AF CS	1	
90	90		9006563-00	NUT,KEP , 8-32 X11/32AF CS	2	
91	91		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOUNTED	2	
92	92		9007226-00	FUSE, REG BLOW, 15.000A, 32V, GLASS	1	F1
93	93		9008268-00	COMPOUND, THERMAL JOINT	A/R	
94	94		9006012-01	SCREW,PAN ,PHIL, 4-40X 7/16 SS/PAS	2	
95	95		9009000-00	EYELET, ROLLED FLANGE, .121 OD X .156 LG	4	
96	96		9009769-00	WASHER, RECTANGULAR .405X.225X.060	1	
97	97		9006021-01	SCREW,PAN ,PHIL, 6-32X 5/16 SS/PAS	2	
98	98		9007660-00	SPACER, FIBER, RND, 4-40, .250 X .500 LG	1	
99	99		9007801-00	WASHER, LOCK, S.S. #6	7	
100	100		9008957-00	NUT,HEX , 6-32X 1/4 AF X 3/32 THK SS	7	
101	101		9007793-01	SCREW,PAN ,PHIL, 6-32X 9/16 SS/PAS	8	
102	102		9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16 SS/PAS	1	
103	103		9107360-99	WIRE,STRND,18AWG,IPVC UL1429 (91-00 A/R		
104	104		9107370-00	WIRE,STRND,14AWG,IPVC UL1534 (91-00 A/R		

DIGITAL EQUIPMENT CORPORATION	TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
MAYNARD, MASSACHUSETTS		+5V 32 AMP REGULATOR	K	PL	5412441-0-0	J

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DRN. 7-27-76	FIRST USED ON	H7441	000000
CHK'D 7-27-76	DATE	7-27-76	
ENG. 7-27-76	DATE	7-27-76	
PROJ. ENG. 7-27-76	DATE	7-27-76	
PROD. 7-27-76	DATE	7-27-76	
NEXT HIGHER ASSY.			
SCALE	SIZE	CODE	NUMBER
SHEET 1 OF 1	D	CS	5412441-0-1
	DIST.		

REV.	DATE	BY	REASON
1	7-27-76	R. DAY	INITIAL DESIGN
2	7-27-76	R. DAY	REVISION 1
3	7-27-76	R. DAY	REVISION 2
4	7-27-76	R. DAY	REVISION 3
5	7-27-76	R. DAY	REVISION 4
6	7-27-76	R. DAY	REVISION 5
7	7-27-76	R. DAY	REVISION 6
8	7-27-76	R. DAY	REVISION 7
9	7-27-76	R. DAY	REVISION 8
10	7-27-76	R. DAY	REVISION 9
11	7-27-76	R. DAY	REVISION 10
12	7-27-76	R. DAY	REVISION 11
13	7-27-76	R. DAY	REVISION 12
14	7-27-76	R. DAY	REVISION 13
15	7-27-76	R. DAY	REVISION 14
16	7-27-76	R. DAY	REVISION 15
17	7-27-76	R. DAY	REVISION 16
18	7-27-76	R. DAY	REVISION 17
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98	7-27-76	R. DAY	REVISION 97
99	7-27-76	R. DAY	REVISION 98
100	7-27-76	R. DAY	REVISION 99

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FIELD MAINTENANCE PRINT SET

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D-CS-5412411-0-1	INPUT RECTIFIER BOARD (CS)

**UNIT VARIATIONS
COVERED BY THIS
PRINT SET**

H785-Ø

H785

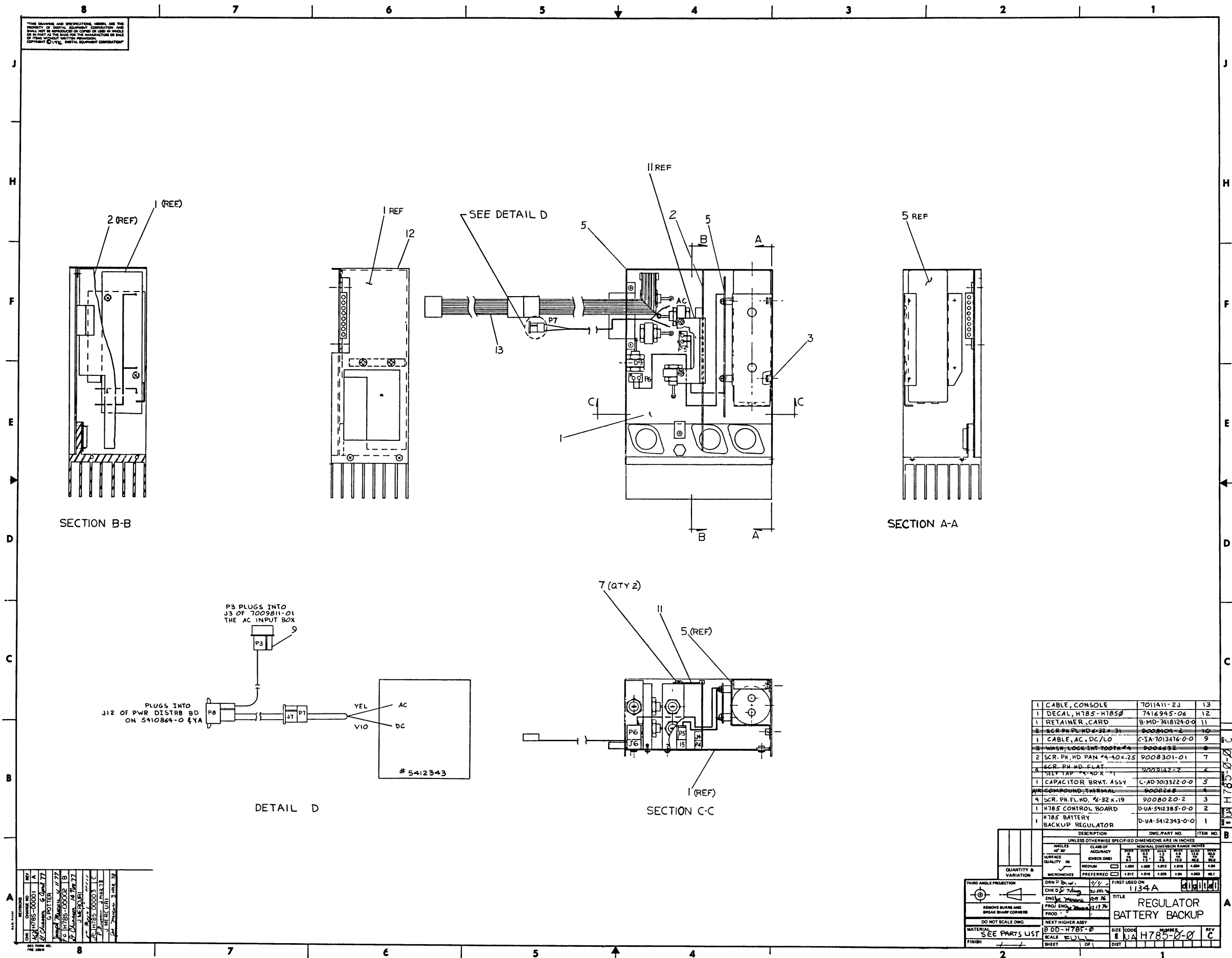
Field Maintenance Print Set

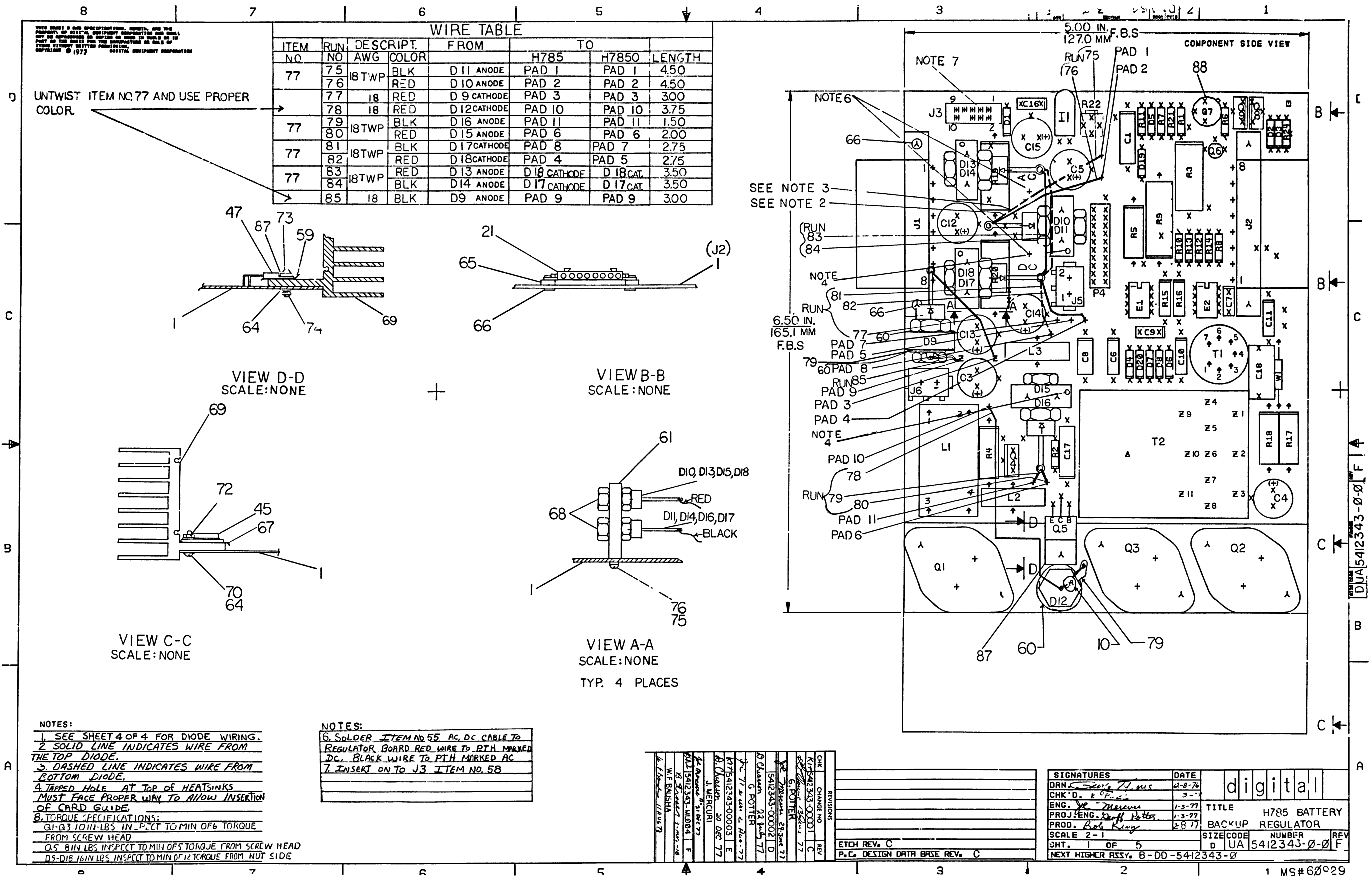
Digital Equipment Corporation

PRINT SET ORDER NO.
MP00272

REVISIONS		REV.	CHG. NO.	DATE	USED ON OPTION/MODEL	DRN.	DATE	TITLE:										
					7013323		D. HEALY	NOV 76	H785 REGULATOR BATTERY BACKUP									
					1134A		CHK'D	DATE										
							D. HEALY	NOV 76										
							PROJ. ENG.	DATE										
							Joe Mercuri	12-19-76										
							FIELD SERV.	DATE	SIZE	CODE	NUMBER				REV.			
							Joe Mercuri	12-20-76	B	TC	H785-0-1				A			
					SHEET 1 OF 1					DIST.								

BLANK





WIRE TABLE							
ITEM NO.	RUN NO.	DESCRIPT.	FROM	TO	LENGTH		
77	75	18TWP BLK	D 11 ANODE	PAD 1	PAD 1	4.50	
	76	18TWP RED	D 10 ANODE	PAD 2	PAD 2	4.50	
	77	18TWP RED	D 9 CATHODE	PAD 3	PAD 3	3.00	
	78	18TWP RED	D 12 CATHODE	PAD 10	PAD 10	3.75	
	79	18TWP RED	D 16 ANODE	PAD 11	PAD 11	1.50	
	80	18TWP RED	D 15 ANODE	PAD 6	PAD 6	2.00	
	81	18TWP BLK	D 17 CATHODE	PAD 8	PAD 7	2.75	
	82	18TWP RED	D 18 CATHODE	PAD 4	PAD 5	2.75	
	83	18TWP RED	D 13 ANODE	D 18 CATHODE	D 18 CAT	3.50	
	84	18TWP BLK	D 14 ANODE	D 17 CATHODE	D 17 CAT	3.50	
	85	18TWP BLK	D 9 ANODE	PAD 9	PAD 9	3.00	

UNTWIST ITEM NO. 77 AND USE PROPER COLOR.

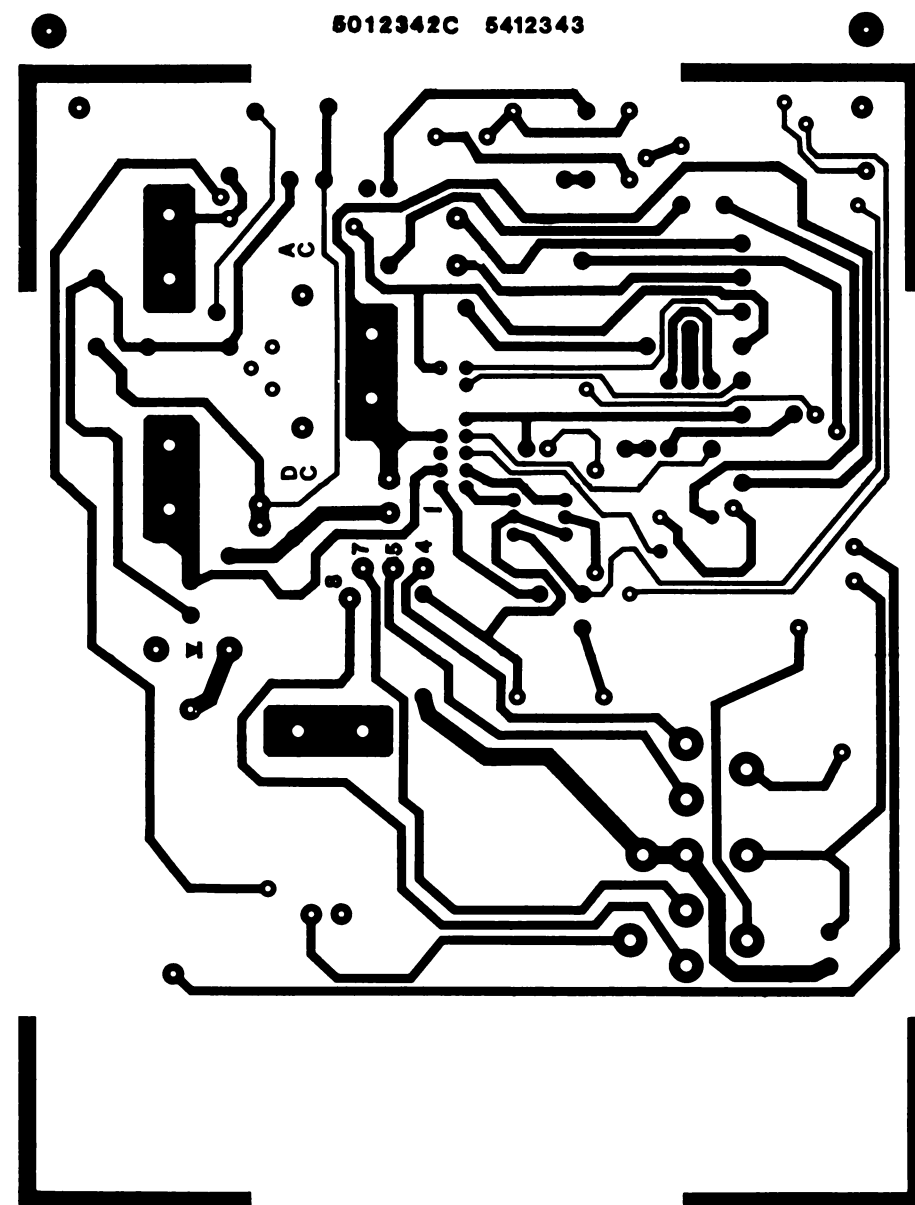
NOTES:
1. SEE SHEET 4 OF 4 FOR DIODE WIRING.
2. SOLID LINE INDICATES WIRE FROM THE TOP DIODE.
3. DASHED LINE INDICATES WIRE FROM BOTTOM DIODE.
4. TAPPED HOLE AT TOP OF HEATSINKS MUST FACE PROPER WAY TO ALLOW INSERTION OF CARD GUIDE.
5. TORQUE SPECIFICATIONS:
Q1-Q3 10 IN. LBS. IN P.C.T. TO MIN OF 6 TORQUE FROM SCREW HEAD
Q4-Q5 8 IN. LBS. INSPECT TO MIN OF 5 TORQUE FROM SCREW HEAD
Q6-Q8 16 IN. LBS. INSPECT TO MIN OF 12 TORQUE FROM NUT SIDE

NOTES:
6. SOLDER ITEM NO. 55 AC, DC CABLE TO REGULATOR BOARD RED WIRE TO PTH MARKED DC. BLACK WIRE TO PTH MARKED AC.
7. INSERT ON TO J3 ITEM NO. 58

CHK	CHANGE NO.	REV.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
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26	26	26
27	27	27
28	28	28
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31	31	31
32	32	32
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41	41	41
42	42	42
43	43	43
44	44	44
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48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
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57	57	57
58	58	58
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82	82	82
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91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

SIGNATURES		DATE	digital	
DRN	DRN	2-8-76		
CHK'D	CHK'D	3-77		
ENG.	ENG.	1-3-77		
PROJ. ENG.	PROJ. ENG.	1-3-77		
PROD.	PROD.	2-8-77		
SCALE	SCALE	2-1		
SHT.	SHT.	1 OF 5		
NEXT HIGHER ASSY.	NEXT HIGHER ASSY.	B-DD-5412343-0		

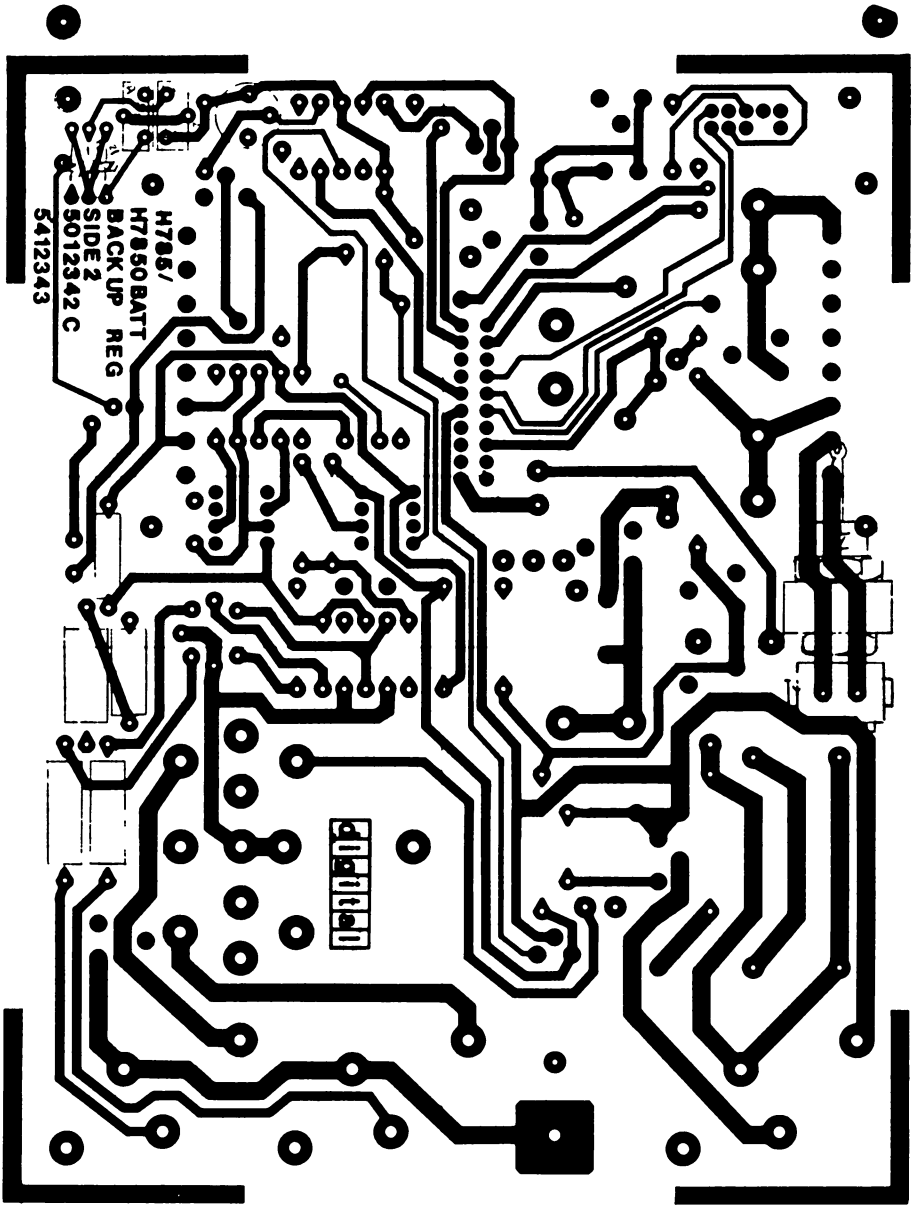
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REVISIONS		
CHK	CHANGE NO	RE.

								TITLE	H785 BATTERY BACKUP REGULATOR	SIZE CODE	D UA	NUMBER	5412343-0-0	REV	F
								SCALE	2/1	SHEET	2 OF 5	DIST			
8	7	6	5	4	3	2	1								

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REVISIONS		
CHK	CHANGE NO	REV

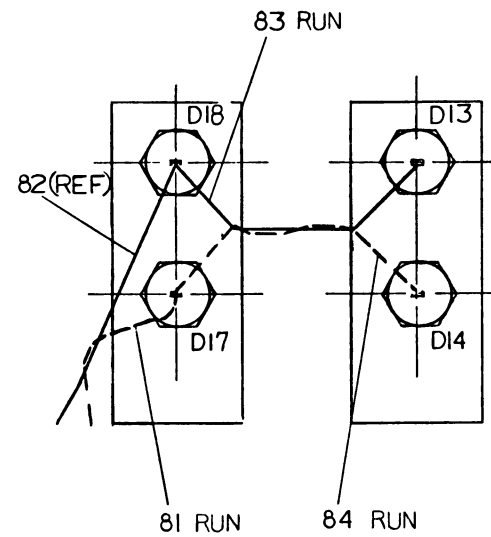
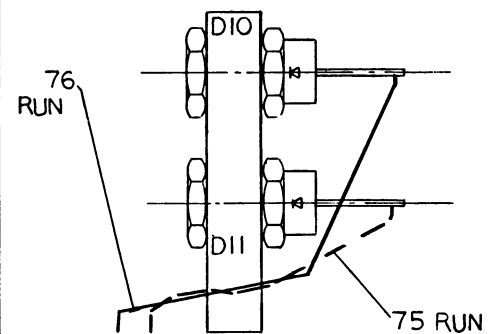
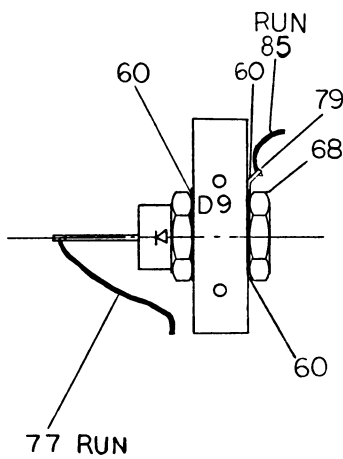
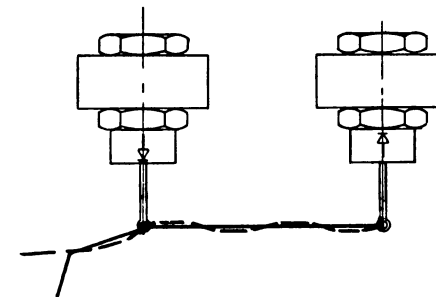
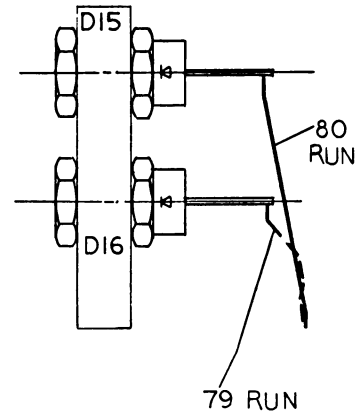
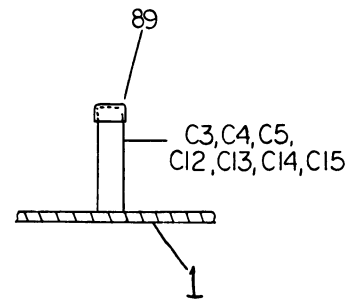
TITLE		H785 BATTERY	SIZE		CODE	NUMBER		REV
BACKUP REGULATOR			D		UA	5412343-Ø-Ø		F
SCALE		2/1	SHEET		3 OF 5	DIST		

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NOTES:

1. WIRING INFORMATION IS ON SHEET 1 OF 4.

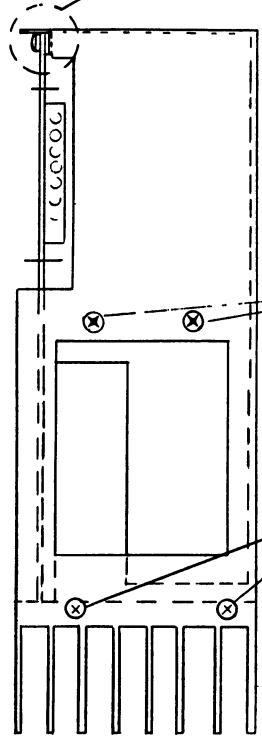
2. DIODES TO BE ASSEMBLED TO HEAT-SINKS AND WIRED AS SHOWN BEFORE INSTALLING TO BOARD.



REVISIONS		
CHK	CHANGE NO	REV.

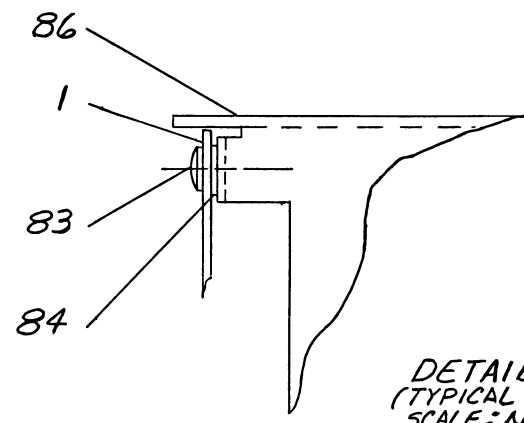
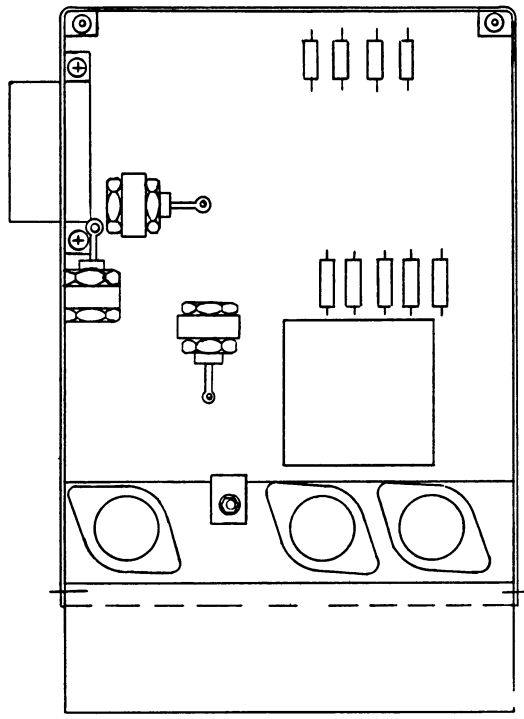
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SEE DETAIL A



81 QTY(2)

82 QTY(4)



REVISIONS		
CHK	CHANGE NO	REV.

TITLE H785 BATTERY BACKUP REGULATOR		SIZE CODE D UA	NUMBER 5412343-0-0	REV. F
SCALE 1-1	SHEET 5 OF 5	DIST.		

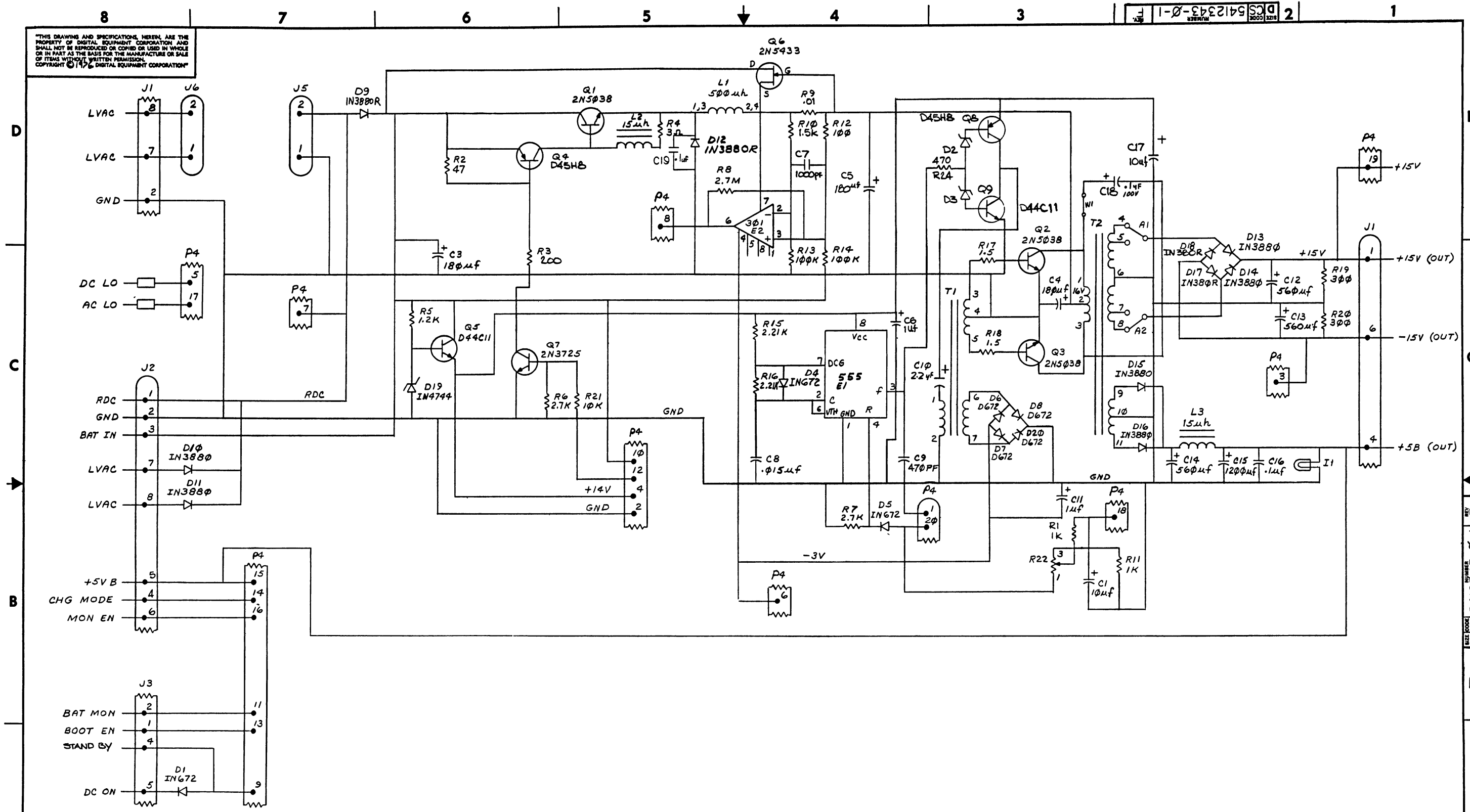
LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
31	31	1309680-00	2.7 M 1/4W 5% CC (13-00	1	R8
32	32	1313712-00	.01 5W 3% WW (13-00	1	R9
33	33	1300365-00	1 K 1/4W 5% CC (13-00	2	R1,R11
34	34	1300229-00	100 1/4W 5% CC (13-00	1	R12
35	35	1302466-00	100 K 1/4W 5% CC (13-00	2	R13,R14
36	36	1312404-00	2.21 K 1/2W 1% RN60D-F 100PPM (13-00	2	R15,R16
37	37	1313579-00	1.5 3W 5% WW (13-00	2	R17,R18
38	38	1309855-00	300 2W 5% CC (13-00	2	R19,R20
39	39	1300479-00	10 K 1/4W 5% CC (13-00	1	R21
40	40	1310852-00	200 22% POT S	1	R22
41	41	1300391-00	1.5 K 1/4W 5% CC (13-00	1	R10
42	42	1300316-00	470 1/4W 5% CC (13-00	1	R24
43	43	BLANK		0	
44	44	BLANK		0	
45	45	1510969-00	2N 5038 NPN 140WC SI 90 50 Y	3	Q1-Q3
46	46	1510708-00	D 45HP PNP 50WT SI 60 60 Y	2	Q4,Q8
47	47	1512790-00	D 44C11 NPN 32W SI 80 40	2	Q5,Q9
48	48	1511686-00	DEC5433 FET N 350MW 10 25 1A 20V	1	Q6
49	49	1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	1	Q7
50	50	BLANK		0	
51	51	1612593-00	500 UH 6A S	1	L1
52	52	1613874-00	CHUCK, 15UH 4A	2	L2,L3
53	53	1613876-00	XFMR, POWER, RATIO 1:2 7PIN S	1	T1
54	54	1613875-00	XFMR, POWER, RATIO 1:2:3 100UH	1	T2
55	55	7013690-00	CABLE 2 PIN AC DC LOW	1	
56	56	1911944-00	555CN TIMER, FUNCT. BLOCK	1	E1
57	57	1910282-00	301AN OP AMP	1	E2
58	58	7013384-10	10 CONDUCTOR EXTENDER CABLE	1	
59	59	1213071-00	INSULATOR, RUBBER SILICONE	1	
60	60	1213071-05	INSULATOR, RUBBER THERMAL	3	
61	61	7417414-00	HEAT SINK (DUAL)	4	
62	62	7417413-00	HEAT SINK (SINGLE)	1	
63	63	9006655-00	WASHER, FLAT, .312 O.D. X .125 ID X .025 T	1	
64	64	9006656-00	WASHER, FLAT, .312 O.D. X .156 I.D. X .027	6	
65	65	9006706-00	WASHER, NYLON, FLAT #4 .375 OD X .031 THK	2	
66	66	9006745-00	EYELET, ROLLED FLANGE, .120 OD X .260 LG	4	
67	67	1213071-02	INSULATOR, RUBBER SILICONE SH	3	
68	68	7006505-00	NUT, KEP , 10-32X 3/8 AF CS/	10	
69	69	1210737-04	HEAT SINK, REGULATOR	1	
70	70	9007793-04	SCREW, BIND, SLOT, 6-32X 9/16 SS/PAS	6	
71	71	9007649-00	***** THIS ITEM IS NOT USED *****	-	
72	72	9008185-00	NUT, KEP , 6-32X 1/4 AF CS/	6	
73	73	9008033-01	SCREW, PAN , PHIL, 4-40X 9/16 SS/PAS	1	
74	74	9006557-00	NUT, KEP , 4-40X 1/4 AF CS	1	
75	75	9006632-00	WASHER, LOCK, INT, .260OD X .120ID X .015 THK	8	
76	76	9006010-04	SCREW, BIND, SLOT, 4-40X 5/16 SS/PAS	8	
77	77	9107430-02	WIRE, STRND, 18AWG, IPVC (UL1429) (91-00 A/R		
78	78	9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	1	W1

! DIGITAL EQUIPMENT CORPORATION !	! TITLE !	! PARTS LIST !	! SIZE !	! CODE !	! DOCUMENT NUMBER !	! REV !
! MAYNARD, MASSACHUSETTS !	! H785 BATTERY BACKUP REGULATOR !		! K !	! PL !	! 5412343-N-DBF !	! F !

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
79	79		9008506-00	TERM LUG 1POS SOLDER,FLAT	2	
80	80		9009149-00	PIN, STAKING, P.C. BOARD, .025 X .025	9	J3
81	81		9008404-02	SCREW,FLAT,PHIL, 6-32X 5/16 SS/PAS 1000	2	
82	82		9009142-02	SCREW, PHILLIPS FLAT HEAD, SELF TAP, 4-40	4	
83	83		9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16 SS/PAS	2	
84	84		9008079-00	WASHER, FLAT FIBER OD. 1/4	2	
85	85		9905212-00	CARTON, DIE CUT 2412 100	1	
86	86	D-1A-7417410-0-0	7417410-00	REGULATOR BRACKET	1	
87	87		9009769-00	WASHER, RECTANGULAR .405X.225X.060	1	
88	88		9007201-00	TRANSIPADS #10253	1	
89	89		9009731-03	CAP,PLASTIC	7	

DIGITAL EQUIPMENT CORPORATION	TITLE	PARTS LIST	SIZE	COCP	DOCUMENT NUMBER	REV
MAYNARD, MASSACHUSETTS		H785 BATTERY BACKUP REGULATOR	K	PL	5412343-0-CBP	F

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REV.	CHG.	NO.	DATE	BY	CHK.
1	7	5412343-00001	C	1/7/77	1/7/77
2	7	5412343-00002	D	1/7/77	1/7/77
3	7	5412343-00003	E	1/7/77	1/7/77
4	7	5412343-00004	F	1/7/77	1/7/77
5	7	5412343-00005	G	1/7/77	1/7/77
6	7	5412343-00006	H	1/7/77	1/7/77
7	7	5412343-00007	I	1/7/77	1/7/77
8	7	5412343-00008	J	1/7/77	1/7/77

DRN. 11-11-76	FIRST USED ON	digital
CHK'D 11-11-76	DATE	11-11-76
ENG. 11-11-76	DATE	11-11-76
PROJ. ENG. 11-11-76	DATE	11-11-76
PROD. 11-11-76	DATE	11-11-76
NEXT HIGHER ASSY.		
SCALE 1:1	SIZE CODE D	CS 5412343-0-1
SHEET 1 OF 1	DIST.	
	NUMBER	REV. F

TITLE
H785 BATTERY
BACKUP REGULATOR

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REWORK INSTRUCTIONS

ECO #1

- 1-1 CUT ETCH BETWEEN R41 AND D16.
(THIS ETCH LINE RUNS OVER TO THE DRAIN OF Q10) SIDE 1.
- 1-2 CUT ETCH ON RIGHT SIDE OF C14, ON THE ETCH LINE THAT HAS PREVIOUSLY BEEN CUT, SIDE 1.
- 1-3 INSERT ECO WIRE FROM THE DRAIN OF Q10 TO THE LEFT SIDE OF C14, TACK SOLDER TO ETCH LINE ON THE LEFT SIDE OF C14, SIDE 1. (THIS IS THE SAME ETCH LINE THAT WAS CUT ON THE RIGHT SIDE OF C14). ECO WIRE IS TO BE ROUTED TO THE TOP OF THE BOARD FROM THE DRAIN OF Q10 THEN RUN ALONG THE BOARD AND COME DOWN TO THE LAND OF ETCH THAT IT HAS TO BE SOLDERED TO THE LEFT SIDE OF C14.

- 1-4 DRILL A .0635 DIA. HOLE (DRILL #52) BENEATH R32 (SIDE 1) MAKING SURE THE ONLY ETCH DRILLED IS THE ONE WITH BOTH ITS ENDS CUT (SEE STEPS 1 AND 2 OF REWORK INSTRUCTIONS). THIS HOLE HAS TO HOLD DEC. 12-12416-02. BE SURE OF SPACING BEFORE DRILLING.
- 1-5 DRILL A .0635 DIA. HOLE (DRILL #52) ABOVE Q1 TO THE LEFT SIDE OF R1, SIDE 1. BE SURE OF SPACING. THIS HOLE MUST HOLD DEC. 12-12416-02. DO NOT PIERCE ETCH ON SIDE 2.
- 1-6 ON SIDE 2, CUT ETCH LEADING AWAY FROM PIN 9 OF J4.
- 1-7 INSERT DEC. 12-12416-02 IN BOTH HOLES PREVIOUSLY DRILLED. DO NOT INSERT FULLY. INSERT SO THAT ENOUGH OF THE LEAD IS THROUGH THE BOARD THAT WILL PERMIT A COUPLE WRAPS OF AN ECO WIRE. THEN GLUE IN PLACE WITH DEC. 9009157. MAKE SURE THAT TABS ON DEC. 12-12416-02 ARE FACING EACH OTHER ON SIDE 1. (S1 AND S2)
- 1-8 ON DEC PART 12-12416-02 THE ONE THAT IS LOCATED CLOSEST TO J4 ON SIDE 1, CONNECT THE LEAD THAT GOES THROUGH THE BOARD, TO PIN J4-9 ON SIDE 2. THIS IS DONE WITH AN ECO WIRE INSTALLED ON SIDE 2.
- 1-9 WITH AN ECO WIRE, CONNECT BOTH CASE TABS OF DEC. 12-12416-02 ON SIDE 1 TOGETHER.
- 1-10 DEC PART 12-12416-02 THAT HAS BEEN INSTALLED BENEATH R32 ON SIDE 1, CONNECT AN ECO WIRE FROM THIS PARTS PIN ON SIDE 2 WITH THE OTHER END OF THE ECO WIRE GOING TO THE P.T.H.

NOTES:

1. COMPONENT NOT INSERTED

- BETWEEN R41 AND D16. (THIS P.T.H. HAS AN ETCH RUN CONNECTING THE ANODE OF D16 TO IT ON SIDE 2.)
- 1-11 CHANGE R10 FROM 13-13151 3.6K OHM TO 1300391 1.5K OHM
- 1-12 CHANGE R11 FROM 13-00316 470 OHM TO 13-00439 3.3K OHM.
- 1-13 CHANGE R4 FROM 13-00309 390 OHM TO 13-01322 180 OHM.
- 1-14 REMOVE W2 INSULATED JUMPER 90-09185.
- 1-15 REMOVE D17, IN 758A 11-00125
- 1-16 GLUE ALL ECO WIRES DOWN WITH DEC. 90-09157.

ECO #2

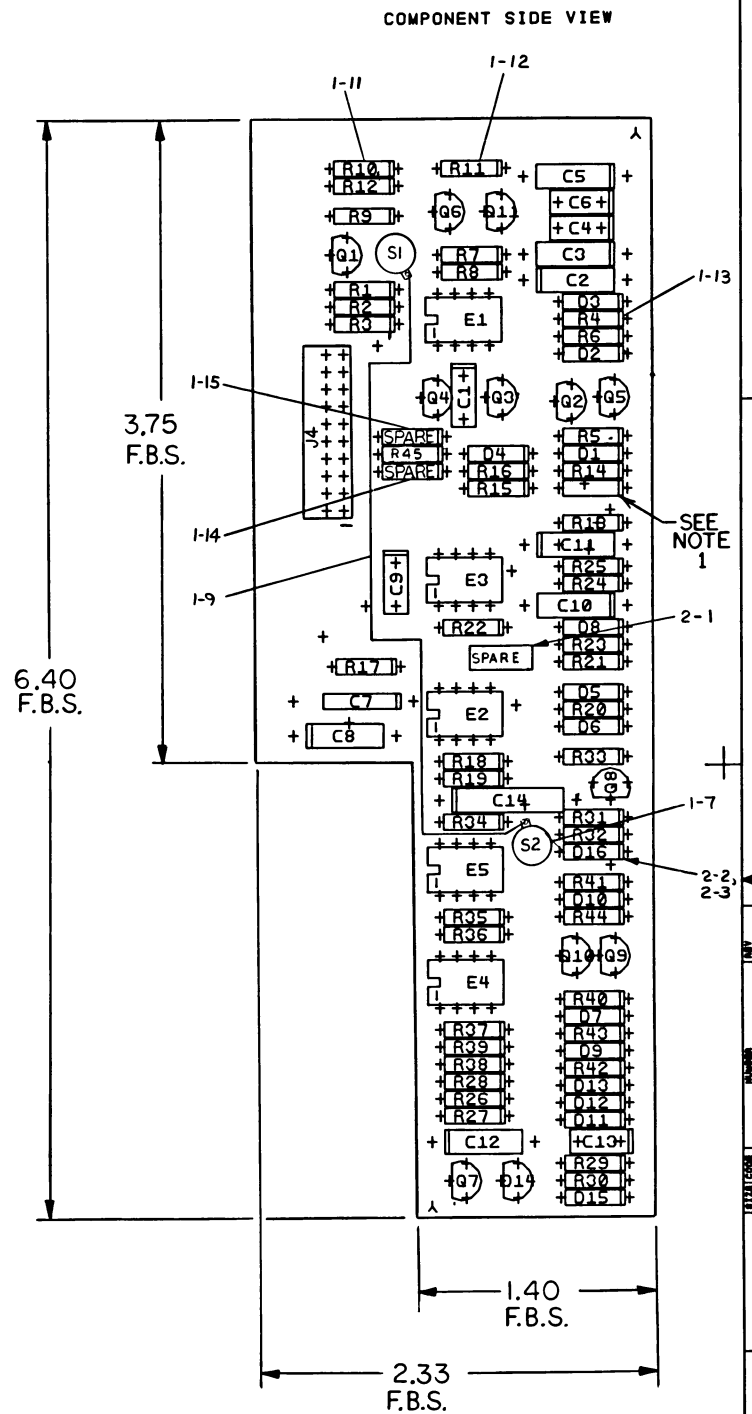
COMPONENT DELETES SIDE 1:

2-1. C15 (P/N1000021)

2-2. D16 (P/N1110068)

COMPONENT ADDS SIDE 1:

2-3. D16 (ZENER BI-DIRECTIONAL P/N1114913-00)



CHK	CHANGE	NO	REV	C
Q2	5412385-1	1	C	
	G. POTTER			
	5412385-2	2	D	
	J. MERCURI			
	5412385-3	3	E	
	G. POTTER			

ETCH REV. C
P.C. DESIGN DATA BASE REV. C

SIGNATURES	DATE	TITLE
DRN. F. GAROFALO	12-9-76	digital
CHK'D. F. SEIDMAN	12-9-76	
ENG. J. MERRILL	12-9-76	
PROJ. ENG. J. MERRILL	12-9-76	
PROD. R. KING	12-9-76	
SCALE 2/1		
SHT. 1 OF 3		
NEXT HIGHER ASSY. B-DD-5412385-0		

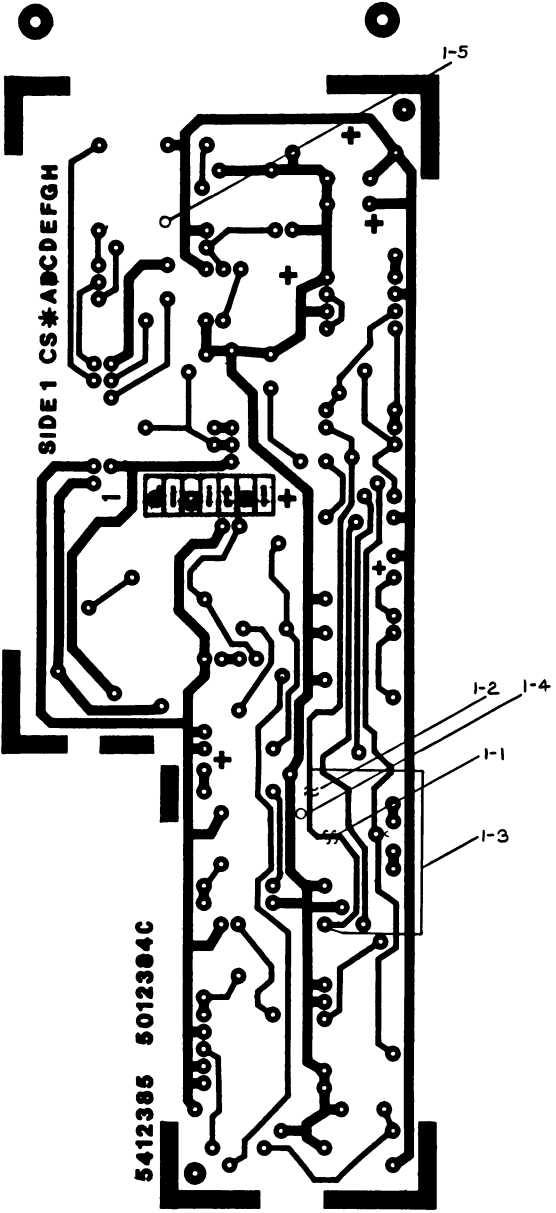
H785 CONTROL BD.

SIZE CODE NUMBER REV

D UA 5412385-00 E

1 MS# 60944

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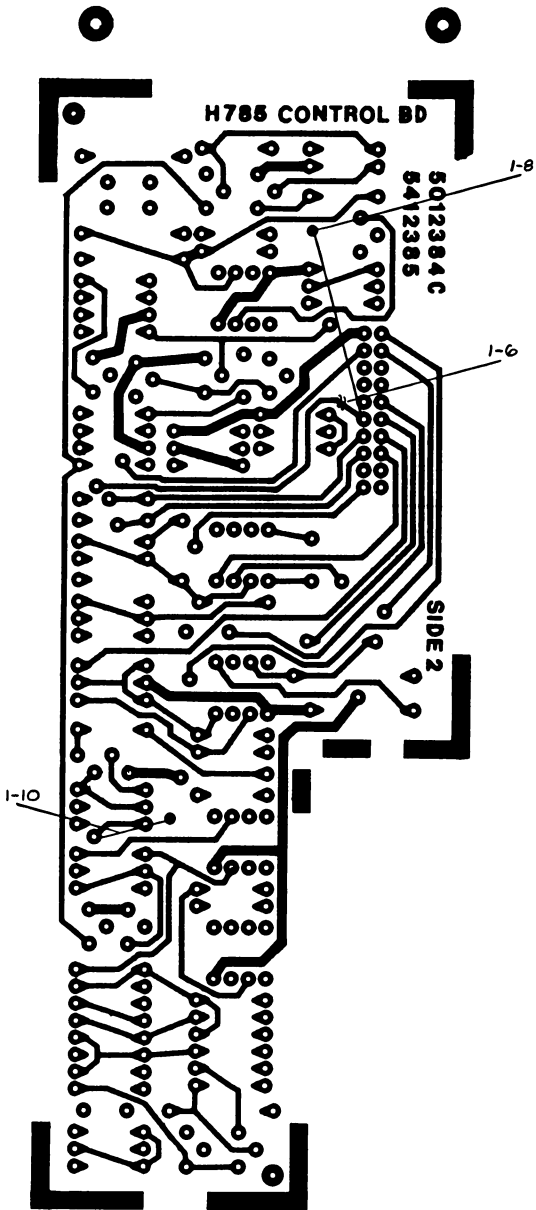
REVISIONS		
CHK	CHANGE NO	REV

8 7 6 5 4 3 2 1

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REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE	CODE	NUMBER		REV.
H785 CONTROL BD		D	UA	5412385-Ø-Ø		E
SCALE 2 / 1		SHEET 3 OF 3		DIST		

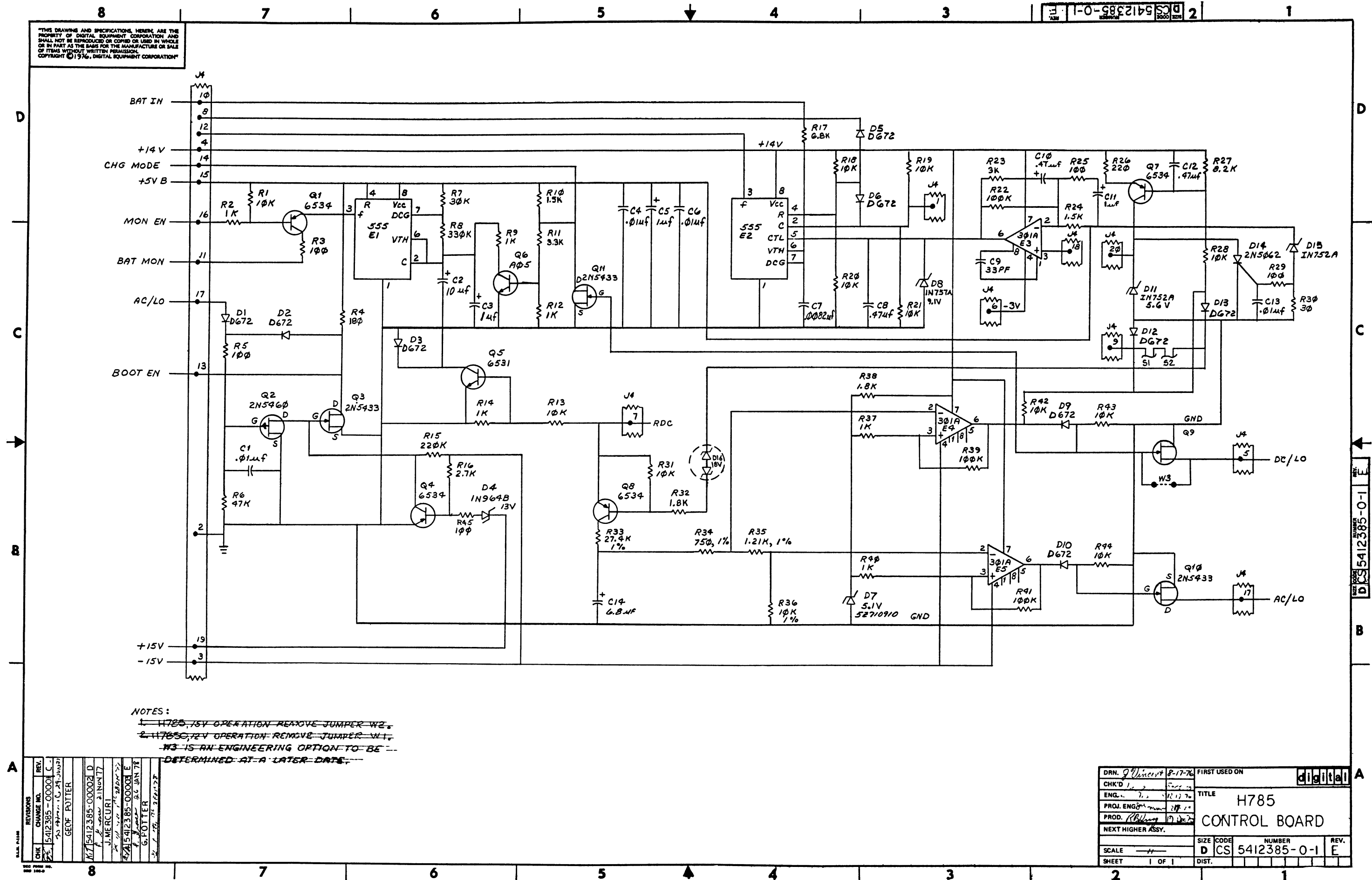


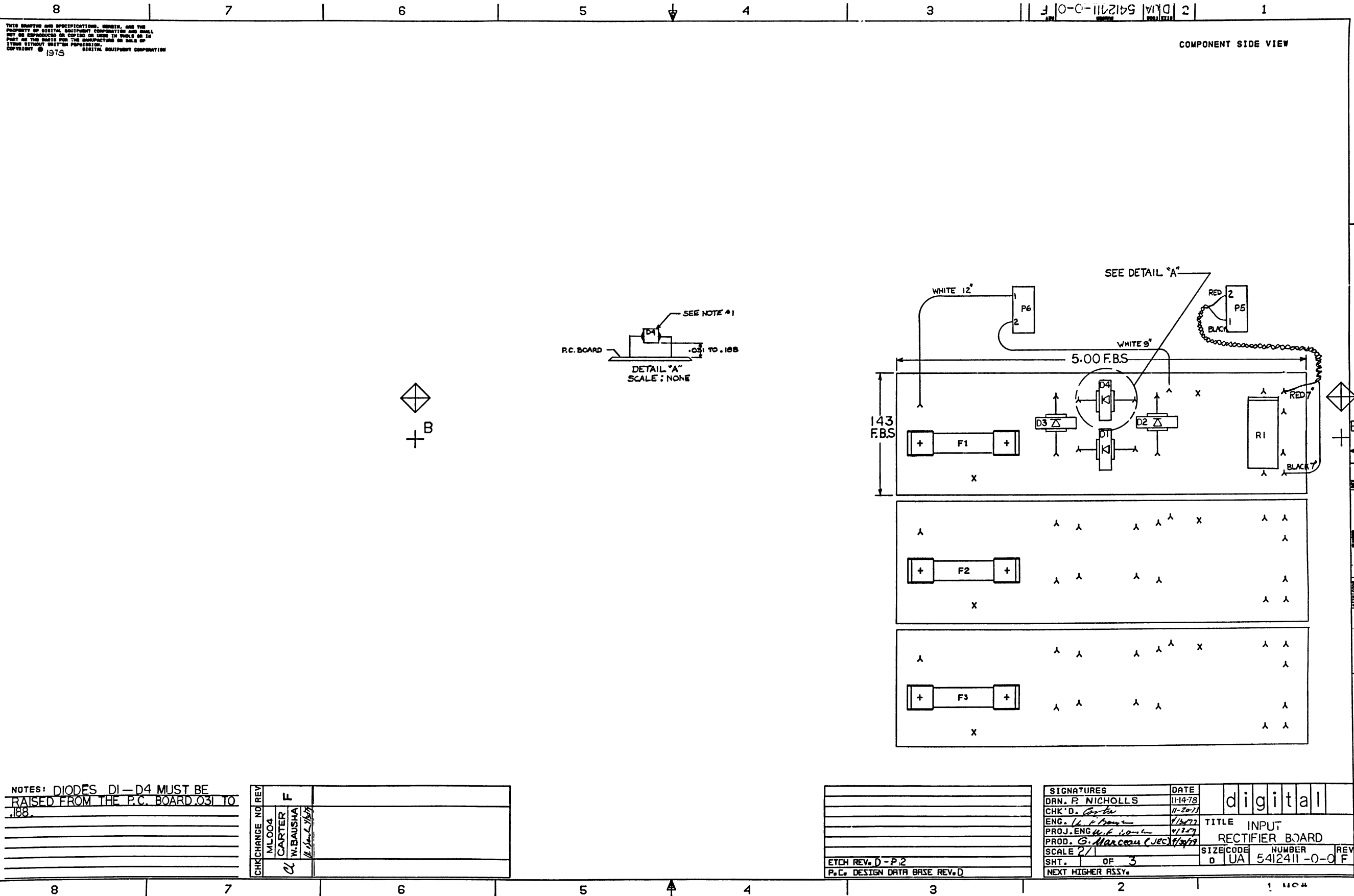
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1	1	D-MD-5012384-0-0	5012384-00	5412385	1	
2	2		1001610-01	.01 MFD 100V DR 50V Z5U DISC/800PF MIN	4	C1,C4,C6,C13
3	3		1004813-00	10 MFD 20V 10% 150D S.TA (10-00	1	C2
4	4		1001776-00	1 MFD 35V 10% 150D S.TA (10-00	3	C3,C5,C11
5	5		1000061-00	8200.0 MMF 100V 10% 663UW MYLR (10-00	1	C7
6	6		1005965-00	.47 MFD 35V 10% 150D S.TA (10-00	2	C8,C12
7	7		1000009-00	33.0 MMF 100V 5%200PPM DM15S (10-00	1	C9
8	8		1005306-00	6.8MFD 35V 10% 150D S.TA (10-00	1	C14
9	9		1105275-00	D 672 TR= 15NS PIV= 60V SP	9	D1,D2,D3,D5,D6,D9,D10,D12,D13
10	10		1109988-00	1N 964B VZ= 13.0 5% .40W Y	1	D4
11	11		1102808-00	1N 752A VZ= 5.6 5% .40W F	2	D11,D15
12	12		1110968-00	2N 5062 SCR@100V I=.8A T092	1	D14
13	13		1110713-00	SZ710910 VZ= 5.1 2% M	1	D7
14	14		1114913-00	VZ= 18.0 10% 1W	1	D16
15	15		1300398-00	1.8 K 1/4W 5% CC (13-00	2	R32,R38
16	16		1300479-00	10 K 1/4W 5% CC (13-00	11	R1,R13,R18,R19,R20,R21,R28,
					CONT	R31,R42-R44
17	17		1300229-00	100 1/4W 5% CC (13-00	5	R3,R5,R25,R29,R45
18	18		1301322-00	180 1/4W 5% CC (13-00	1	R4
19	19		1302177-00	47 K 1/4W 5% CC (13-00	1	R6
20	20		1302394-00	30 K 1/4W 5% CC (13-00	1	R7
21	21		1302091-00	330 K 1/4W 5% CC (13-00	1	R8
22	22		1300365-00	1 K 1/4W 5% CC (13-00	6	R2,R9,R12,R14,R37,R40
23	23		1300426-00	2.7 K 1/4W 5% CC (13-00	1	R16
24	24		1302092-00	220 K 1/4W 5% CC (13-00	1	R15
25	25		1301423-00	6.8 K 1/4W 5% CC (13-00	1	R17
26	26		1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM (13-00	1	R35
27	27		1302955-00	750 1/4W 1% RN55D-F 100PPM (13-00	1	R34
28	28		1303312-00	10.0 K 1/4W 1% RN55D-F 100PPM (13-00	1	R36
29	29		1302466-00	100 K 1/4W 5% CC (13-00	3	R22,R39,R41

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK	ECD NO	REV						
W,H	00003	E		00				
					MADE BY:	F.MALANSON	DATE:	21-FEB-78
					CHECKED:	F.SEIDMAN	DATE:	21-FEB-78
					DSN.ENG.:	J.MERCURI	DATE:	21-FEB-78
					PROD.:	R.B.KING	DATE:	21-FEB-78
					RESP.ENG.:	J.MERCURI	DATE:	21-FEB-78
					ASSY.NO.:		D-UA-5412385-0-0	
					SIZE:		CODE:	DOCUMENT NUMBER
					K		PL	5412385-0-0
							REV	
							EDIT#	
							4	
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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
30	30		1300271-00	220 1/4W 5% CC (13-00	1	R26
31	31		1303179-00	8.2 K 1/4W 5% CC (13-00	1	R27
32	32		1302751-00	30 1/4W 5% CC (13-00	1	R30
33	33		1309417-00	27.4 K 1/4W 1% RN55D-F 100PPM (13-00	1	R33
34	34		1503409-00	DEC6534D PNP 310MW SI 40 90 P	4	Q1,Q4,Q7,Q8
35	35		1510233-00	2N 5460 FET 310MW SIP CHNNL	1	Q2
36	36		1511686-00	DEC5433 FET N 350MW 10 25 1A 20U	4	Q3,Q9,Q10,Q11
37	37		1509338-00	DEC6531B NPN 310MW SI 40 90 P	1	Q5
38	38		1510705-00	XA 05 NPN 500MW SI 60 50 P	1	Q6
39	39		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E1,E2
40	40		1910282-00	301AN OP AMP	3	E3,E4,E5
41	41		1300391-00	1.5 K 1/4W 5% CC (13-00	2	R10,R24
42	42		1213335-00	HEADER 20POS RT ANGLE FOR 12-13334	1	J4
43	43		1300439-00	3.3 K 1/4W 5% CC (13-00	1	R11
44	44		1212416-02	THERMOSTAT,00160,N/C,SPST,AUTO RESET	2	S1,S2
45	45		1300432-00	3 K 1/4W 5% CC (13-00	1	R23
46	46		1109990-00	1N 757A VZ= 9.1 5% .40W P	1	D8
47	47		1005965-00	.47 MFD 35V 10% 150D S.TA (10-00	1	C10
48	48		9009157-00	ADHESIVE, PERMABOND #101 A/R		
49	49		9105740-55	WIRE(WRAP)30AWG UL1423 (91-00 A/R		

! DIGITAL EQUIPMENT CORPORATION !	! TITLE	PARTS LIST	! SIZE !	! CODE !	DOCUMENT NUMBER	! REV !
! MAYNARD, MASSACHUSETTS !		H785 CONTROL BOARD	! K !	! PL !	5412385-0-0	! E !



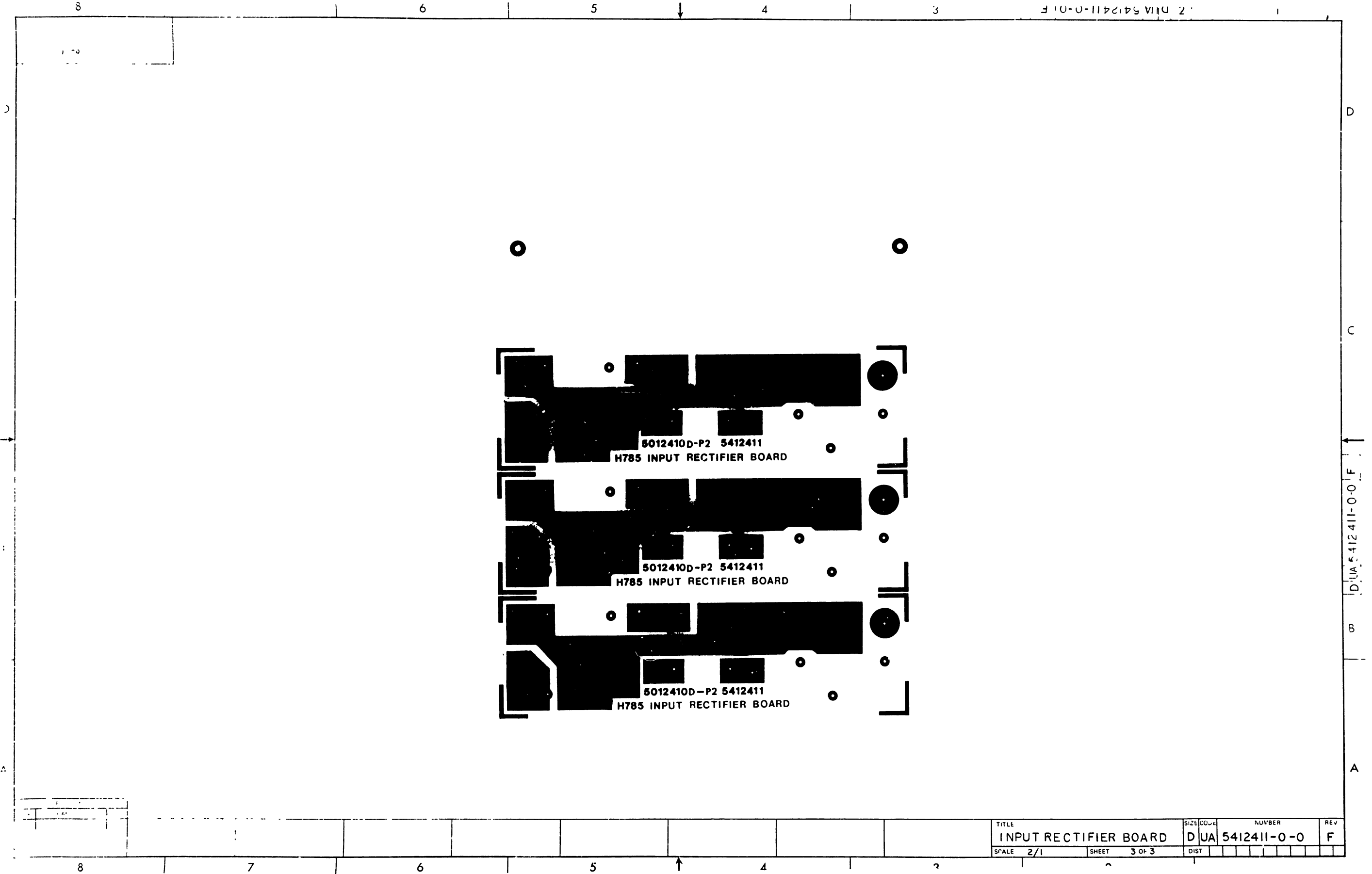


MS60054 80134100-P2 5412411



A
B
C

								TITLE	SIZE	CODE	NUMBER	REV
								INPUT RECTIFIER BOARD	D	UA	5412411-0-0	F
								SCALE	2/1	SHEET	2 OF 3	DIST
8	7	6	5	4	3	2	1					



SHEET A1 OF A1

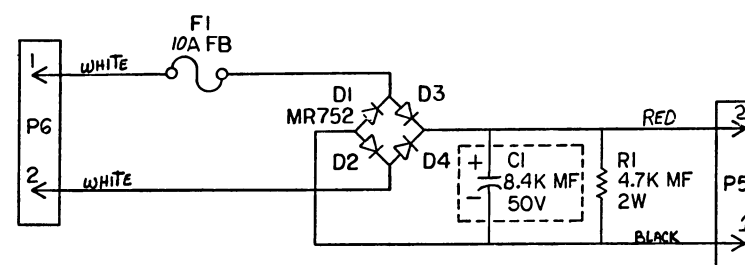
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					00		
1	1	D-MD-5412410-0-0	5012410-00	5412411	1		
2	2		1110615-00	MR 752 PIV=200 I=22A A264 SM	4		D1-D4
3	3		1210821-02	MATE-N-LOK 2PIN HOUSING,SKT	2		P5,P6
4	4		1209379-01	MATE-N-LOK PIN 20-14AWG LOOSE	4		
5	5		1302609-00	4.7 K 2W 10% CC	1		R1
6	6		9009000-00	EYELET, ROLLED FLANGE, .121 OD X	2		
7	7		9008390-00	FUSE, REG BLOW, 10.000A, 250V, C	1		
8	8		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2		
9	9		9107360-99	WIRE,STRND,18AWG,IPVC UL1429	A/R		
10	10		9107430-02	WIRE,STRND,18AWG,IPVC (UL1429)	A/R		

REVISION HISTORY			BASIC PART NO: 5412411		DRN: D.BILODEAU		DATE: 09-MAY-79		DIGITAL				
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: F.GAROFALO		DATE: 09-MAY-79		TITLE PARTS LIST				
J.M	5412411-ML 004	F	SECTION VARIATION INDEX		CHK'D:		DATE: 09-MAY-79		INPUT RECTIFIER BOARD				
			[A] 00										
			[B]										
			[C]		DES.ENG: J.MERCURI		DATE: 09-MAY-79						
			[D]										
			[E]						DOCUMENT NUMBER				
			[F]		RESP.ENG.: J.MERCURI		DATE: 09-MAY-79						
			[G]						SIZE	CODE	NUMBER	REV	
			[J]										
			[K]		MFG.ENG.: R.B.KING		DATE: 09-MAY-79		K	PL	5412411 0-DBP	F	
			[L]										
			[M]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT		
			[N]		D-UA-5412411-0-0				Z0474F.PLS		3		

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NOTES:

1. C1 WILL BE CONNECTED TO BOARD AT NEXT HIGHER ASSEMBLY.

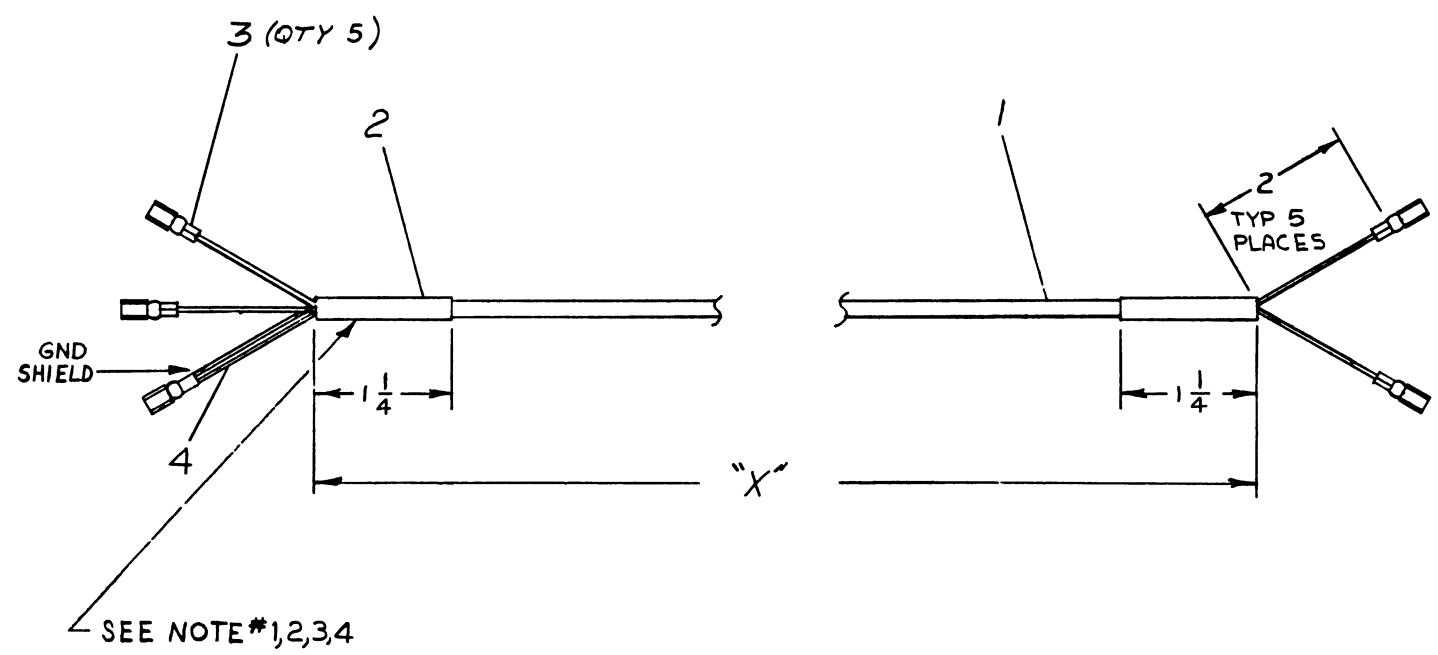


QTY		REF. DESIGNATION		DESCRIPTION		PART NO.		ITEM NO.	
FIRST USED ON OPTION MODEL				PARTS LIST					
ETCH BOARD REV.		D							
DRN		DATE		digital TITLE INPUT RECTIFIER BOARD					
CHG		DATE							
ENG		DATE							
PROL ENG		DATE							
PROD		DATE							
NEXT HIGHER ASSY									
SCALE		OF		SIZE		CODE		NUMBER	
SHEET		OF		D		CS		5412411-00-1	
REV.		D							

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LEGEND		
NUMBER	DIM *X*	USED ON
7011413-3F	3 FT 6 IN ± 1 IN	BALL-L OR K
7011413-7	7 FT ± 2 IN	H928Ø
7011413-10	10 FT 0 IN ± 1 IN	1104/34-TA

- NOTES:
1. AFTER STRIPING OUTSIDE COVERING (1-1/4 IN.) FOLD BACK THE GROUND WIRE. (BARE ONE) AND REMOVE THE WRAPPER
 2. COVER THE FOLDED BACK BARE WIRE, WITH ITEM #2 AND SHRINK (ON BOTH ENDS).
 3. ADD ITEM #4 (CLEAR TUBING) OVER ITEM #1 (SHIELD) ON ONE END.
 4. STAKE ITEM #3 (5 PLACES) ONTO ITEM #1



A/R	CLEAR TUBING	9107278-11	4
5	TERMINAL LUG FAST-ON (.RED)	9007917-00	3
A/R	TUBING SHRINK WHT 3/32	91-07254-09	2
A/R	WIRE SHIELDED #22 AWG	91-07703	1

REVISIONS		
CHK	CHANGE NO.	REV.
8/1	7011413-00001	A
8/1	7011413-00002	B
8/1	7011413-00003	C
8/1	7011413-00004	D
8/1	7011413-00005	E
8/1	7011413-00006	F
8/1	7011413-00007	G
8/1	7011413-00008	H
8/1	7011413-00009	I
8/1	7011413-00010	J
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8/1	7011413-00013	M
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8/1	7011413-00255	IU
8/1	7011413-00256	IV
8/1	7011413-00257	IW
8/1	7011413-00258	IX
8/1	7011413-00259	IY
8/1	7011413-00260	IZ
8/1	7011413-00261	JA
8/1	7011413-00262	JB
8/1	7011413-00263	JC
8/1	7011413-00264	JD
8/1	7011413-00265	JE
8/1	7011413-00266	JF
8/1	7011413-00267	JG
8/1	7011413-00268	JH
8/1	7011413-00269	JI
8/1	7011413-00270	IJ
8/1	7011413-00271	JK
8/1	7011413-00272	IL
8/1	7011413-00273	JM
8/1	7011413-00274	JN
8/1	7011413-00275	JO
8/1	7011413-00276	JP
8/1	7011413-00277	JQ
8/1	7011413-00278	JR
8/1	7011413-00279	JS
8/1	7011413-00280	JT
8/1	7011413-00281	JU
8/1	7011413-00282	JV
8/1	7011413-00283	JW
8/1	7011413-00284	JX
8/1	7011413-00285	JY
8/1	7011413-00286	JZ
8/1	7011413-00287	KA
8/1	7011413-00288	KB
8/1	7011413-00289	KC
8/1	7011413-00290	KD
8/1	7011413-00291	KE
8/1	7011413-00292	KF
8/1	7011413-00293	KG
8/1	7011413-00294	KH
8/1	7011413-00295	KI
8/1	7011413-00296	KJ
8/1	7011413-00297	KK
8/1	7011413-00298	KL
8/1	7011413-00299	KM
8/1	7011413-00300	KN
8/1	7011413-00301	KO
8/1	7011413-00302	KP
8/1	7011413-00303	KQ
8/1	7011413-00304	KR
8/1	7011413-00305	KS
8/1	7011413-00306	KT
8/1	7011413-00307	KU
8/1	7011413-00308	KV
8/1	7011413-00309	KW
8/1	7011413-00310	KX
8/1	7011413-00311	KY
8/1	7011413-00312	KZ
8/1	7011413-00313	LA
8/1	7011413-00314	LB
8/1	7011413-00315	LC
8/1	7011413-00316	LD
8/1	7011413-00317	LE
8/1	7011413-00318	LF
8/1	7011413-00319	LG
8/1	7011413-00320	LH
8/1	7011413-00321	LI
8/1	7011413-00322	LJ
8/1	7011413-00323	LK
8/1	7011413-00324	LL
8/1	7011413-00325	LM
8/1	7011413-00326	LN
8/1	7011413-00327	LO
8/1	7011413-00328	LP
8/1	7011413-00329	LQ
8/1	7011413-00330	LR
8/1	7011413-00331	LS
8/1	7011413-00332	LT
8/1	7011413-00333	LU
8/1	7011413-00334	LV
8/1	7011413-00335	LW
8/1	7011413-00336	LX
8/1	7011413-00337	LY
8/1	7011413-00338	LZ
8/1	7011413-00339	MA
8/1	7011413-00340	MB
8/1	7011413-00341	MC
8/1	7011413-00342	MD
8/1	7011413-00343	ME
8/1	7011413	

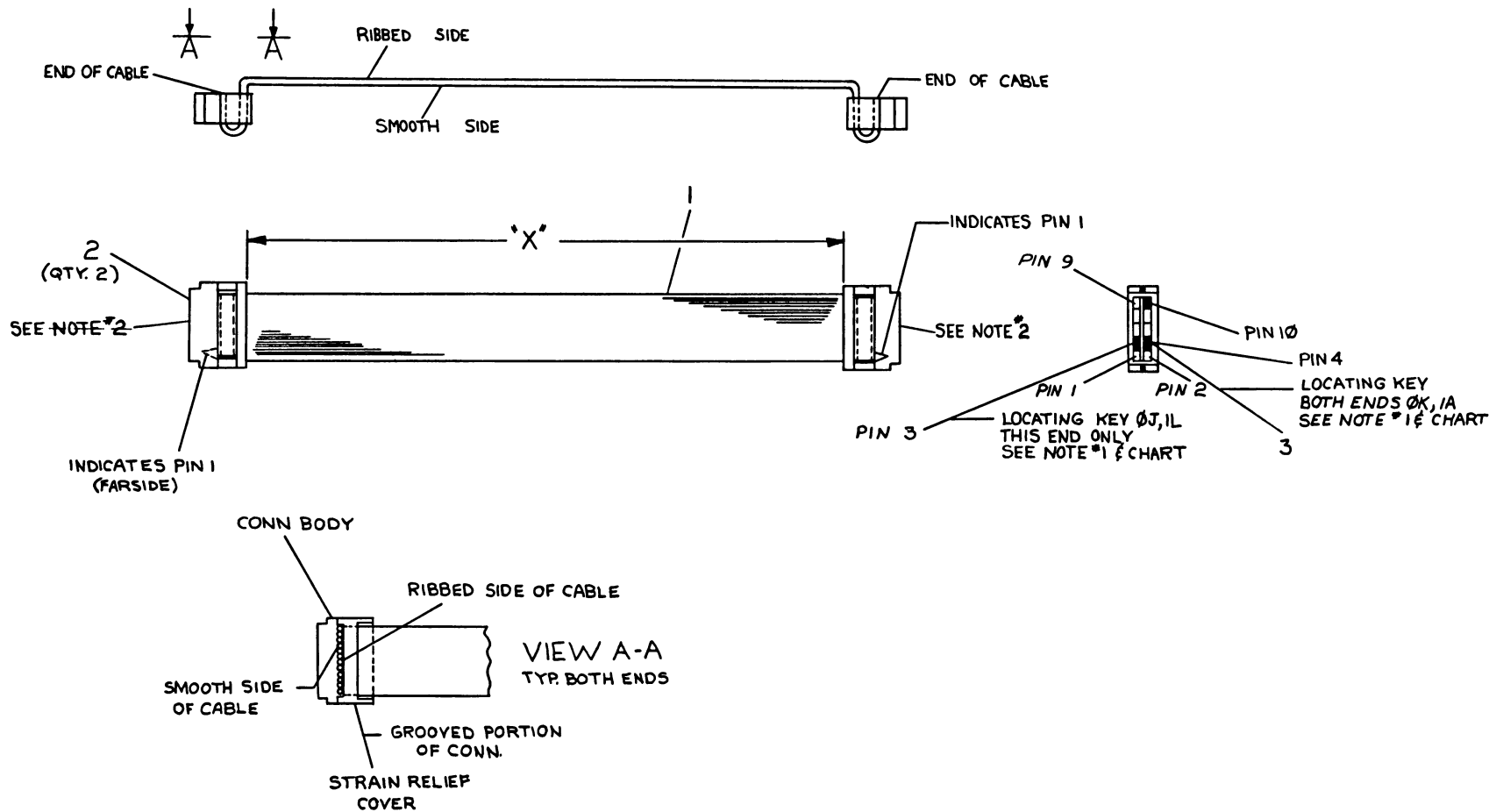
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LEGEND

NUMBER	DIM * X ^o VARIATION	USED ON	KEY PIN
7011411-0J	8 IN ± .5 IN.	BA11-L OR K	10 ONE END
7011411-0K	9 IN ± .5 IN.	LS1-11	4 BOTH ENDS
7011411-1D	1 FT-4 IN ± 1 IN.	KY11-LB	
7011411-2D	2 FT-4 IN ± 1 IN.	BA11-F/DO HPF	10 ONE END
7011411-0H	7 IN ± .5 IN.	H790, 1, 2, 3	
7011411-1J	1 FT-8 IN ± 1 IN.	1104/34-7A	
7011411-1L	1 FT-10 IN ± 1 IN.	BA11-L, H777	PIN 3 1 END
7011411-1A	1 FT-1 IN ± 1 IN.	H787	4 BOTH ENDS
7011411-3J	3 FT-8 IN ± 1 IN.	BA11-K, H785	
7011411-2J	2 FT-8 IN ± 1 IN.	BA11-K-H785	NO KEY
7011411-5F	5 FT-6 IN ± 1 IN.	1160	8 ONE END
7011411-12	12 FT ± 3 IN.	KA570	
7011411-7	7 FT ± 2 IN.	11780	

NOTES:

1. INSERT KEY IN PROPER CONNECTOR PIN AND BREAK OFF TAB.
2. FOR ITEM (2) DRAWING IS SHOWING 3M CONNECTOR.



1	TIE, CABLE	9007031	5
1	LABEL, CABLE IDENT.	9009532	4
A/R	KEY	9009707	3
2	CONN. CRIMP	1211206-02	2
A/R	CABLE, 10 CONDUCT	9107747-02	1

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
7011411-0-0	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
	ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
	SURFACE QUALITY IN	(CHECK ONE)	OVER 0.2 TO 0.4
	MICROINCHES	PREFERRED	0.4 TO 0.6

THIRD ANGLE PROJECTION	DRNM BAPTIST 5-20-75	FIRST USED ON	SEE LEGEND
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D D. HEALY 6-13-75	TITLE	CABLE
DO NOT SCALE DWG	ENG. R. BARRY 6-18-75		CONSOLE BACKPLANE
MATERIAL SEE PARTS LIST	PROJ. ENG. R. BARRY 6-18-75	SIZE CODE	D 1A
FINISH	PROD. R. PETERSON 6-19-75	NUMBER	7011411-0-0
	NEXT HIGHER ASSY.	REV.	N
	SCALE NONE		
	SHEET 1 OF 1		

REVISIONS	CHANGE NO.	REV.
1	7011411-00011	M
2	7011411-00012	N
3	7011411-00013	N
4	7011411-00014	N
5	7011411-00015	N
6	7011411-00016	N
7	7011411-00017	N
8	7011411-00018	N
9	7011411-00019	N
10	7011411-00020	N

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WIRE TABLE									
ITEM NO	DESCRIPTION		FROM			TO			SIGNAL
			POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
5	18	BLU	2	PI-1	2	7	—	4	
	TWP	BLK	1	PI-3	2	8	—	4	
6	18	RED	3	—	4	6	—	4	+5
	TWP	BLK	4	—	4	5	—	4	GND

0-0-2661102 VI 2

NOTES:

1. APPLY TIE WRAP (ITEM 5) EVERY 4 IN.

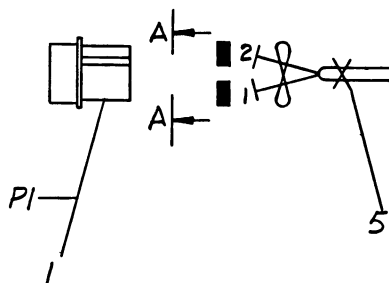
LOCATING LUG

PIN 1

VIEW A-A
REAR VIEW
(WIRING SIDE)

PI

1



DO NOT REDUCE SCALE

0 IN 6 IN 12 IN

FOR MANUFACTURING PURPOSES ONLY

DO NOT SCALE

DO NOT SCALE

CAUTION

21 IN (SEE NOTE 1)

WIRE 18 AWG TWP BLK/RED	9107430-02	6
WIRE 18 AWG TWP BLK/BLU	9107430-06	5
CONN SOLDERLESS (RED)	9007917	4
TIE WRAP 1 M	9007031	3
PIN MALE	1209378-01	2
HOUSING, 3 PIN	12 09351-03	1

SYMBOL		DESCRIPTION	DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLES 30° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES		
		OVER 0 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0
SURFACE QUALITY IN	MEDIUM	± .004	± .008	± .012
		± .004	± .008	± .012
MICROINCHES	PREFERRED	± .004	± .008	± .012
		± .004	± .008	± .012

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRG. BY: [Signature] 11/34

CHK'D BY: [Signature] 11/34

ENG. R. [Signature] 11/34

PROJ. ENG. R. [Signature] 11/34

PROD. K. [Signature] 11/34

FIRST USED ON 11/34

TITLE PDP 1104/1134 CONSOLE POWER HARNESS

SIZE CODE D

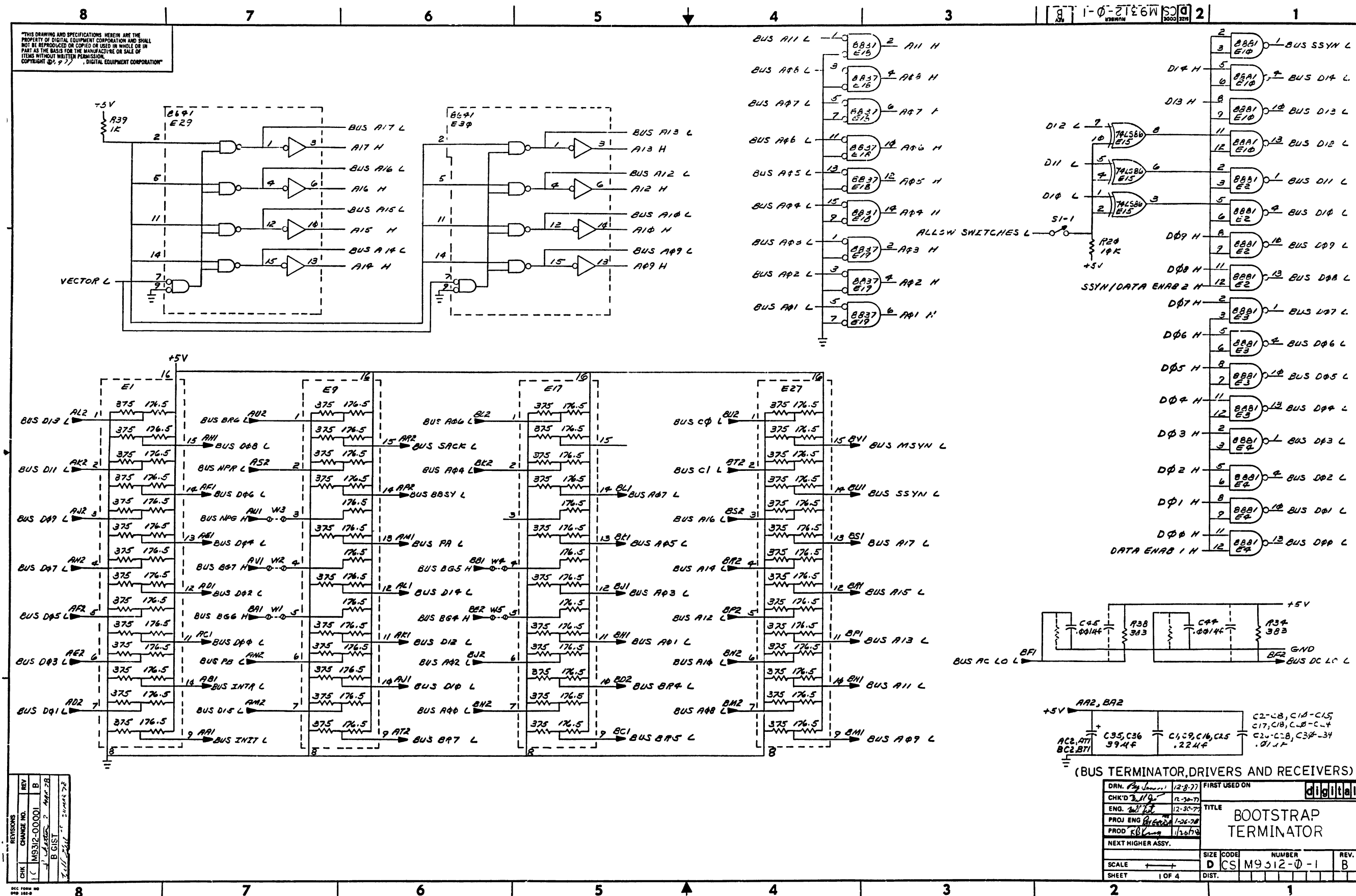
NUMBER 7011992-0-0

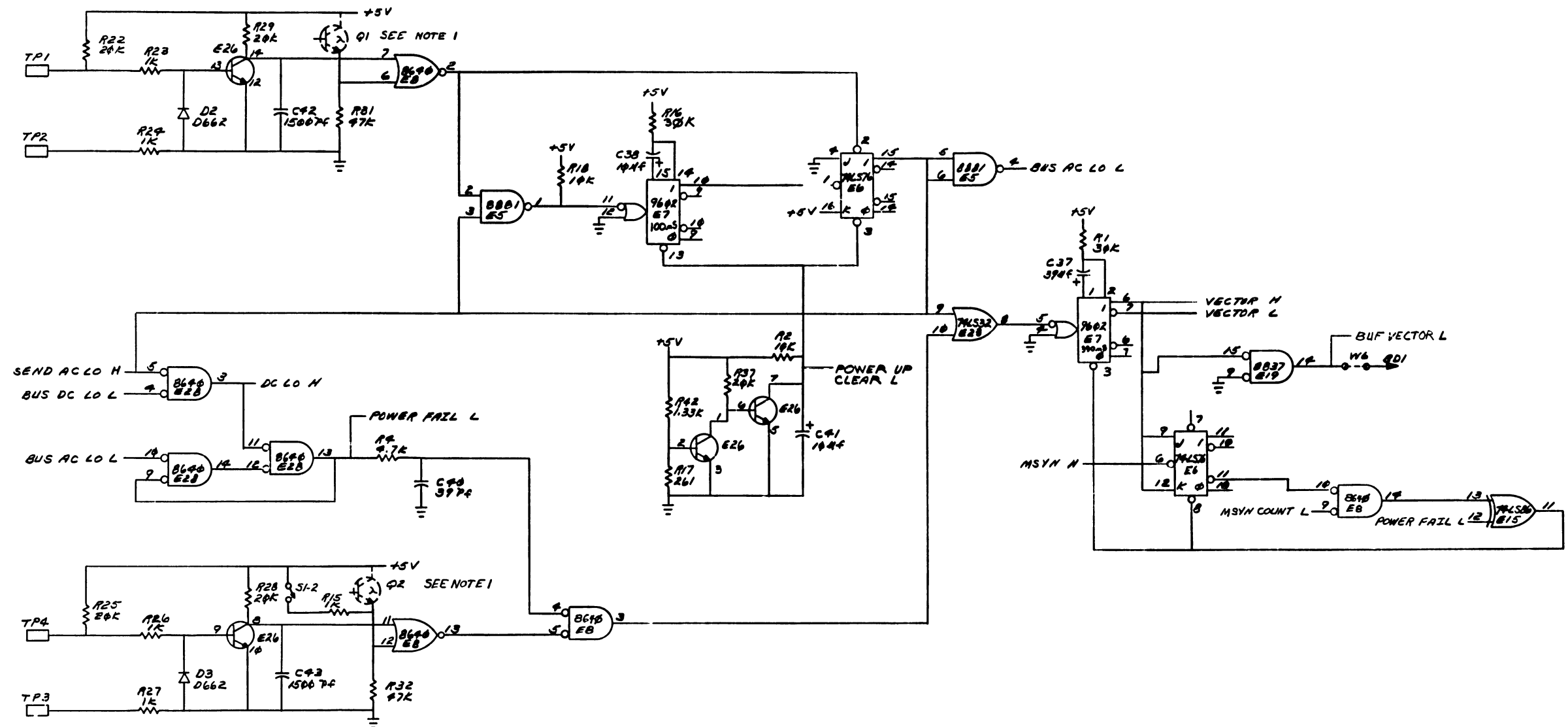
REV.

7011992-0-0

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION											
PARTS LIST					DC, DD, LC, LD	HC, HD, MC, MD	DH, DJ, LH, LJ	HH, HJ, MH, MJ	DE, DF, IE, IF	HE, HF, ME, MF	EM, EN	JC, JD	JH, JJ	JE, JF		
MADE BY D. HEALY		CHECKED D. HEALY		SECTION												
DATE 15 DEC 76		DATE 16 DEC 76		1												
ENG <i>D. Healy</i>		PROD <i>AB</i>		ISSUED SECT.												
DATE 17 JAN 77		DATE 1/17/77		1												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION														
	MP00190	1134A FIELD MAINTENANCE PRINT SET			1	1	1	1	1	1	1	1	1	1		
	EK-1134A-OP	1134A SYSTEM USERS MANUAL			1	1	1	1	1	1	1	1	1	1		
	EK-KD11-EA-TM	KD11-EA PROCESSOR MANUAL *			1	1	1	1	1	1	1	1	1	1		
	EK-MS11E-MM	MS11-E-J MOS MEMORY MAINTENANCE MANUAL *			1	-	1	-	1	-	-	-	-	-		
	EK-MM11D-TM	MM11D/DP CORE MEMORY MANUAL *			-	1	-	1	-	1	-	-	-	-		
	EK-MS11K-MM	MS11-K MOS MEMORY MAINTENANCE MANUAL *			-	-	-	-	-	1	-	-	-	-		
	EK-BA11K-MM	BA11-K MAINTENANCE MANUAL *			-	-	1	1	1	1	1	-	1	1		
	EK-BA11L-MM	BA11-L MAINTENANCE MANUAL *			1	1	-	-	-	-	1	-	-	-		
	EK-M9301-TM	M9301 MAINTENANCE MANUAL * NOTE 1			1	1	1	1	1	1	1	1	1	1		
	EK-M7850-MM	M7850 MAINTENANCE MANUAL *			1	1	1	1	1	1	1	1	1	1		
	EK-DL11W-MM	DL11-W MAINTENANCE MANUAL *			-	-	-	-	-	1	1	-	-	1		
	EK-KY11-LB-MM	KY11-LB MAINTENANCE MANUAL *			-	-	-	-	1	1	-	-	-	1		
	ZJ010-RB	SOFTWARE LIBRARY KIT (PAPER TAPE)			1	1	1	1	1	1	1	1	1	1		
	1211825	CHASSIS TRACKS AND MOUNTING HARDWARE			1	1	1	1	1	1	1	1	1	1		
	7010059	SHIPPING BRACKET			1	1	1	1	1	1	1	1	1	1		
	EK-MM11YP-TM	MM11YP MAINTENANCE MANUAL			-	-	-	-	-	-	-	1	1	1		
	EK-M9312-TM	M9312 MAINT. MANUAL * NOTE 1			1	1	1	1	1	1	1	1	1	1		
	23248F1	ROM, CONSOLE EMULATOR NOTE 2			1	1	1	1	1	1	1	1	1	1		
	NOTE 1. MANUAL SHIPPED	TO BE CONSISTENT WITH MODULE														
	SHIPPED	IN MACHINE.														
	2. CONSOLE	EMULATOR ROM IS TO BE SHIPPED ONLY IF M9312 IS SHIPPED.														
		* Do not ship to OEM. customers														
TITLE		ASSY NO.		SIZE	CODE	NUMBER			REV.	ECO NO.						
1134A SHIPPING LIST		NONE		A	PL	1134A-0-4			C	1134A-000C9						
SHEET 1 OF 1				DIST.												

TW





NOTES: 1. PHOTO TRANSISTORS Q1 AND Q2
DO NOT APPEAR ON THE PARTS LIST,
THEY ARE INTENDED FOR FUTURE
APPLICATIONS.

REVISIONS		
CHK	CHANGE NO.	REV.

(SWITCH FILTERS AND AC LO GENERATION)

TITLE		SIZE CODE	NUMBER		REV.
BOOTSTRAP TERMINATOR		D CS	M9312-0-1		B
SCALE		SHEET 2 OF 4	DIST.		

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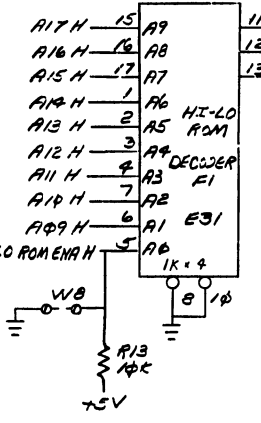
BYTE ADDR H
BYTE ADDR L
A0 H
A1 H
A2 H
A3 H
A4 H
A5 H
A6 H
A7 H
A8 H

HI-LO ROM DECODER

A17-09	LO ROMEN H	BOOT SEL H	LOW ROM L	HIGH ROM H
765 XXX	H	H	L	L
765 XXX	L	L	H	H
773 XXX	X	H	H	H
DEFAULT	X	L	H	L

ALLOW SWITCHES ROM

A08-01 HIGH ROM H	ENABLE ROM L	W9, W10	W11, W12	ALLOW SWITCHES L	ALLOW SWITCHES H
X X X	X	H	X	H	H
X X X	L	L	IN OUT	H	L
X X X	L	L	OUT IN	H	L
024	11	L	IN OUT	L	H
DEFAULT	X	L	IN OUT	H	L
224	H	L	OUT IN	L	H
DEF, WLT	X	L	OUT IN	H	L



DATA ENAB 1 H
ENABLE ROM L
ENABLE HIGH ROM L

A08	A07	ENABLE HIGH ROM L	HIGH ROM H	BOOT 1 L	BOOT 2 L	BOOT 3 L	BOOT 4 L
L	L	L	H	L	H	H	H
L	H	L	H	H	L	H	H
H	L	L	H	H	H	L	H
H	H	L	H	H	H	H	L
X	X	X	L	H	H	H	H
X	X	H	X	H	H	H	H

ALLOW SWITCHES H

ALLOW SWITCHES L

ROM DATA LATCH H

(ADDRESS DECODE AND BOOT ROMS)

REVISIONS
CHK
CHANGE NO.
REV.

TITLE	SIZE CODE	NUMBER	REV.
BOOTSTRAP TERMINATOR	D CS	M9312-0-1	6
SCALE	SHEET	3 OF 4	DIST.

BLANK